**Kinase Assay Kits**

Signal transduction of smooth muscle contraction

![Diagram of signal transduction](image)

**Serine/Threonine Kinase Kits**
- Akt/PKB
- Aurora A
- Aurora Family
- CaMK Kinase II
- Casein Kinase 2
- Cdc2-Cyclin B
- Checkpoint Kinases
- cGK/PKG
- JNK/SAPK
- MAPKAP Kinase 2
- Mps1/TTK
- p38
- PKD1
- Polo-like Kinase-1
- Polo-like Kinase-3
- PKA & PKC
- Raf
- Rho Kinase

**Tyrosine Kinase Kits**
- Dyrk2
- FGFR2
- Lck/p56
- Met
- Pyk2
- Src
- Wee1

**Phosphatase Assay Kits**
- PTP1B Phosphatase
- T Cell Tyrosine Phosphatase (TC-PTP)
- LMW-PTP/ACP1

**Phospho-Specific Antibodies**

For Research Only

www.mblintl.com
Serine/Threonine Kinases

CycLex® Akt/PKB Kinase Assay/Inhibitor Screening Kit

The PI3K and Akt (also known as Protein Kinase B) signaling pathway regulates a variety of biological processes including survival, proliferation, cell growth, cell motility and glycogen metabolism. Akt mediates insulin- and IGF-1-induced cellular responses, such as the inhibition of glycogen synthase kinase-3, the stimulation of glucose uptake and the promotion of cell survival by inhibiting apoptosis. Mammals have three closely related Akt genes, encoding the isoforms Akt1, Akt2 and Akt3. Over-expression of Akt1 or Akt2 is associated with some human ovarian, pancreatic, and breast carcinomas.

MBL has two different kits for measuring Akt activity. The CycLex® Akt/PKB Kinase Assay/Inhibitor Screening Kit is a single-site, non-quantitative immunoassay for Akt activity. Plates are pre-coated with ‘AKTide-2T’, a specific Akt substrate that is efficiently phosphorylated by Akt1, 2 and 3. The detector antibody is AT-3E2, a monoclonal antibody that detects only the phosphorylated form of AKTide-2T. The kit can be used to study the kinetics of purified or partially purified Akt as well as to screen Akt inhibitors or activators.

The KinaseSTAR™ Akt/PKB Activity Assay Kit utilizes an Akt-specific antibody to immunoprecipitate Akt from cell lysates. Akt-specific activity is then analyzed by determining the phosphorylation of GSK-3α by Western blotting using a phospho-GSK-3α (Ser21) specific antibody.

For more information and to order, go to www.mblintl.com
Aurora kinases regulate centrosome maturation, chromosome segregation, and cytokinesis. A-type Aurora kinases localize to both centrosomes and spindle microtubules and have been implicated in spindle assembly. The B-type Aurora kinases are present at centromeres in prophase and metaphase, before they relocate to the central spindle and the midbody in anaphase and telophase. The C-type Aurora kinases are expressed primarily in testis and some tumor cell lines, where they have been localized to spindle poles. All three Aurora kinases family members have been reported to be over-expressed in many human cancers, and elevated expression has been correlated with chromosomal instability, and in some instances with clinically aggressive disease.

MBL presents two kits for measuring Aurora kinase activity. The CycLex® Aurora A Kinase Assay/Inhibitor Screening Kit uses recombinant Lats2 as a specific Aurora A substrate. A detector antibody specifically recognizes only the phosphorylated form of the serine83 residue on Lats2. The kit is suitable for assaying the kinetics of purified or partially purified Aurora-A as well as for screening Aurora-A inhibitors.

The CycLex® Aurora Family Kinase Assay/Inhibitor Screening Kit, on the other hand, detects all 3 Aurora family kinases (Aurora A, B, and C) using “Aurora-substrate-1” as the substrate. Like the Aurora A kit, this colorimetric ELISA assay is ideal for screening for the effects of Aurora kinase inhibitors and activators on purified Aurora kinase proteins.

Related Products

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<th>Products</th>
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<td>CY-1174</td>
<td>CycLex® Aurora Family Kinase Assay/Inhibitor Screening Kit</td>
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For more information and to order, go to www.mblintl.com
CycLex® CaM Kinase II Assay Kit

CaM-dependent protein kinase (CaM kinase II) is a ubiquitously expressed, multifunctional protein kinase involved in neurotransmitter synthesis and release, neuronal plasticity and gene expression. CaM kinase II is highly concentrated at synapses that use glutamate as the neurotransmitter. CaM kinase II phosphorylates the glutamate receptor and enhances the ion current, which may contribute to mechanisms of synaptic plasticity for learning and memory. CaM kinase II requires calcium-bound calmodulin for activation and for its ability to phosphorylate and alter the function of a variety of substrates.

The CycLex® CaM Kinase II Assay Kit is designed to measure the activity of CaM kinase II in cells lines or tissue homogenates and for screening for CaM Kinase inhibitors or activators. The assay is a simple 96-well ELISA that uses a phospho-specific monoclonal antibody to recognize the phosphothreonine residue in “Syntide-2”, which can be efficiently phosphorylated by CaM kinase II.

CycLex® Casein Kinase-2 (CK2) Assay/Inhibitor Screening Kit

Protein kinase CK2 is a ubiquitous and pleiotropic serine/threonine protein kinase that interacts with many different signaling pathways, especially those involved in specific phases of the cell cycle. The holoenzyme is composed of two catalytic (α and/or α') and two regulatory (β) subunits. Both the free α/α' catalytic subunits and the holoenzyme are constitutively active, a feature that is suspected to underlie CK2's oncogenic potential. The enzyme is highly expressed in most cancers, and research suggests that CK2 dysregulation in tumors may influence their apoptotic activity. Thus, CK2 is an attractive target for anti-neoplastic and antitumor drugs.

The CycLex® CK2 Assay/Inhibitor Screening Kit is designed to measure the activity of purified Casein Kinase-2 (CK2) for the rapid and sensitive evaluation of CK2 inhibitors or activators. The phospho-specific monoclonal antibody used in this assay kit specifically recognizes the phospho-serine46 residue in p53, which is phosphorylated by CK2 in vitro.

For more information and to order, go to www.mblintl.com
For research use only

Serine/Threonine Kinases

CycLex® Cdc2-Cyclin B Kinase Assay Kit
MESACUP® Cdc2 Kinase Assay Kit

All transitions of the cell cycle are controlled through regulation of the cyclin-dependent kinases (Cdks). Cdc2 kinase, also known as Cdk1, associates with cyclin B to initiate the onset of mitosis. Cdc2 kinase and its homologues play an essential role in the regulation of the cell cycle and gene transcription.

The CycLex® Cdc2-Cyclin B Kinase Assay Kit is designed to accurately measure the presence and relative amount of Cdc2-Cyclin B kinase activity in cell extracts, tissue homogenates, or column fractions, and for the nonisotopic kinetic analysis of Cdc2-Cyclin B kinase activity. The kit is also ideal for the identification of pharmacological modulators of Cdc2 kinase activity in an easy, colorimetric 96-well ELISA format. The kit includes a phospho-specific monoclonal antibody that specifically recognizes the phospho-Thr376 residue in human Cdc7, which is phosphorylated by Cdc2-Cyclin B kinase but not by Cdk2-Cyclin A, Cdk2-Cyclin E, Cdk4-Cyclin D or Cdk6-Cyclin D.

MBL has developed the MESACUP® Cdc2 Kinase Assay Kit to provide a simple, reliable and non-radioactive method for measuring Cdc2 kinase activity. The kit is based on an ELISA that utilizes a specific, biotinylated peptide as a substrate for the Cdc2 kinase and a monoclonal antibody recognizing the phosphorylated form of the peptide substrate. This method is as sensitive as the radioactive one and is less affected by concentrations of ATP present in the reaction mixture. The assay can be performed on crude cell extracts, column fractions or purified enzymes.

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<td>CY-1164</td>
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<td>5236</td>
<td>MESACUP® Cdc2/Cdk1 Kinase Assay Kit</td>
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<td>5235</td>
<td>MESACUP® Cdc2/Cdk1 Kinase Assay Kit</td>
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<td>5237</td>
<td>MESACUP® Cdc2/Cdk1 Kinase Assay Kit</td>
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Related Products

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<td>5336</td>
<td>HCK-gel</td>
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CycLex® Checkpoint Kinase Assay/Inhibitor Screening Kit

Cdc25C phosphatase plays a crucial role in the regulation of the G2/M progression through the cell cycle. In response to DNA damage, various intracellular kinases including Chk1, Chk2, and C-TAK1 (Cdc25C-associated protein kinase), appear to phosphorylate Cdc25C on Ser216.

The CycLex® Checkpoint Kinase Assay/Inhibitor Screening Kit uses a phospho-Cdc25C(Ser216) monoclonal antibody to provide a specific and sensitive method to measure the activities of checkpoint kinases. This kit may be used to study the kinetics of purified or partially purified individual checkpoint kinases as well as for preinvestigational drug screening for checkpoint kinase inhibitors or activators.

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<td>CY-1162</td>
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Related Products

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<td>CY-E1162-2</td>
<td>Chk2 Positive Control</td>
<td>2 units</td>
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<tr>
<td>CY-E1162-3</td>
<td>C-TAK1 Positive Control</td>
<td>2 units</td>
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Activation of cyclic GMP-dependent protein kinase (cGK/PKG) is an important event in the regulation of blood pressure and platelet function. Upstream signals include the generation of nitric oxide (NO) by NO synthases and the subsequent rise in cGMP levels mediated by NO-dependent guanyl cyclases (GCs). The identification of new cGK activators by high throughput screening (HTS) may lead to the development of a novel class of therapeutics for the treatment of cardiovascular diseases.

The CycLex<sup>®</sup> Cyclic GMP dependent protein kinase (cGK/PKG) Assay Kit is a single-site immunoassay for cGK activity. Plates are pre-coated with a substrate corresponding to recombinant G-kinase substrate, which contains threonine residues that can be phosphorylated by cGK family members, including cGKI and cGKII. The kit may be used to determine the presence of cGK activity in cell lysates, tissue homogenates, purification column fractions, or to follow the kinetics of a purified or partially purified cGK protein, as well as for screening for cGK inhibitors.

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**Serine/Threonine Kinases**

**CycLex<sup>®</sup> Cyclic GMP dependent protein kinase (cGK/PKG) Assay Kit**

CycLex<sup>®</sup> Cyclic GMP dependent protein kinase (cGK/PKG) Assay Kit

Activation of cGK/PKG is an important event in the regulation of blood pressure and platelet function. Upstream signals include the generation of nitric oxide (NO) by NO synthases and the subsequent rise in cGMP levels mediated by NO-dependent guanyl cyclases (GCs). The identification of new cGK activators by high throughput screening (HTS) may lead to the development of a novel class of therapeutics for the treatment of cardiovascular diseases.

The CycLex<sup>®</sup> Cyclic GMP dependent protein kinase (cGK/PKG) Assay Kit is a single-site immunoassay for cGK activity. Plates are pre-coated with a substrate corresponding to recombinant G-kinase substrate, which contains threonine residues that can be phosphorylated by cGK family members, including cGKI and cGKII. The kit may be used to determine the presence of cGK activity in cell lysates, tissue homogenates, purification column fractions, or to follow the kinetics of a purified or partially purified cGK protein, as well as for screening for cGK inhibitors.

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<tr>
<td>CY-1161</td>
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**Related Products**

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<td>Cyclic GMP dependent protein kinase (cGK) Positive Control (full length)</td>
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<td>JM-K372-100</td>
<td>cGMP Direct Immunoassay Kit</td>
<td>100 assays</td>
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</table>

**KinaseSTAR<sup>™</sup> JNK Activity Assay Kit**

KinaseSTAR<sup>™</sup> JNK Activity Assay Kit

JNK (c-Jun N-terminal kinase), also called stress activated protein kinase (SAPK), is a member of the serine/threonine MAP kinase family. JNK is activated in response to a variety of stimuli, including inflammatory cytokines, growth factors and cellular stresses such as UV-light. JNK plays a key role in several basic cellular processes such as inflammation and apoptosis.

The KinaseSTAR<sup>™</sup> JNK Activity Assay Kit utilizes a JNK-specific antibody to immunoprecipitate JNK from cell lysates. JNK-specific activity is then analyzed by detecting the phosphorylation of c-Jun by Western blotting with a phospho-c-Jun specific antibody.

The KinaseSTAR<sup>™</sup> JNK Activity Screening Kit is designed to rapidly and easily screen large numbers of samples for JNK activity. The kit uses an N-terminal c-Jun (1-79) fusion protein bound to glutathione sepharose beads to selectively precipitate JNK from cell lysates. After washing to remove non-specifically bound proteins, the kinase reaction is then carried out in the presence of cold ATP. c-Jun phosphorylation is measured by Western blot analysis using a phospho-c-Jun specific antibody.

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<th>Quantity</th>
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<tr>
<td>JM-K431-40</td>
<td>KinaseSTAR&lt;sup&gt;™&lt;/sup&gt; JNK Activity Assay Kit</td>
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<tr>
<td>JM-K430-40</td>
<td>KinaseSTAR&lt;sup&gt;™&lt;/sup&gt; JNK Activity Screening Kit</td>
<td>40 tests</td>
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**Related Products**

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<td>JM-7001-100</td>
<td>c-Jun/GST Fusion Protein (1-79), Human Recombinant</td>
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<td>JM-3502-100</td>
<td>Anti-Phospho-c-Jun (Ser73) Polyclonal Antibody</td>
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<td>JM-3701-100</td>
<td>Anti-JNK Polyclonal Antibody</td>
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<td>JM-7011-50</td>
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<td>JM-7021-50</td>
<td>JNK1 Negative Control Peptide</td>
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<td>JM-7031-1</td>
<td>JNK Activated Jurkat Cell Lysate</td>
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<tr>
<td>JM-7031-1</td>
<td>JNK Negative Jurkat Cell Lysate</td>
<td>1 mg</td>
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For more information and to order, go to www.mblintl.com
Serine/Threonine Kinases

CycLex® MAPKAP-kinase2 Assay/Inhibitor Screening Kit

MAP kinase-activated protein kinase 2 (MAPKAP-kinase 2) is a substrate for p38 MAPK, which is involved in the biosynthesis of inflammatory cytokines, apoptosis, and platelet aggregation. Treatment of cells with endotoxin, interleukin-1, tumor necrosis factor, or various stress stimuli activate p38 MAPK and MAPKAP-kinase 2. Recently it was reported that the major substrate for MAPKAP-kinase 2 in human neutrophils is LSP1 (Leukocyte Specific Protein 1), a 339-amino acid cytoskeletal protein expressed in neutrophils, lymphocytes, and macrophages.

The CycLex® MAPKAP-kinase2 Assay/Inhibitor Screening Kit provides a non-isotopic, sensitive, and specific method to detect MAPKAP-kinase 2 activity for HTS screening applications. The phospho-serine monoclonal antibody used in this assay binds the phospho-Ser204 residue in LSP1 (Leukocyte Specific Protein 1), which is phosphorylated by MAPKAP-kinase 2 in vitro.

Related Products

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<th>Products</th>
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<tbody>
<tr>
<td>CY-1166</td>
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<td>CY-E1166</td>
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<td>CY-M1019</td>
<td>Anti-Phospho-LSP1 (Ser204) Monoclonal Antibody</td>
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CycLex® Mps1/TTK Kinase Assay/Inhibitor Screening Kit

Mps1 plays a role in cell cycle control; expression of human Mps1 is markedly reduced or absent in resting cells and tissues.

The CycLex® Mps1/TTK Kinase Assay/Inhibitor Screening Kit is designed to measure the activity of purified human Mps1/TTK for the rapid and sensitive evaluation of inhibitors or activators. The phospho-serine specific monoclonal antibody in this assay kit has been demonstrated to recognize the phospho-serine residue in recombinant human Mps1-substrate, which is phosphorylated by human Mps1/TTK.

Related Products

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<td>CY-E1179</td>
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<td>200 assays</td>
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</table>

For more information and to order, go to www.mblintl.com
Serine/Threonine Kinases

CycLex® p38 Assay/Inhibitor Screening Kit

The p38-α MAPK pathway is critical for inflammatory cytokine production and signaling. The CycLex® p38 Assay/Inhibitor Screening Kit is designed to measure the activities of purified p38α (p38) for the rapid and sensitive evaluation of inhibitors using recombinant p38. The phospho-threonine specific polyclonal antibody used in this assay kit recognizes the phospho-threonine 71 residue in ATF2, which is efficiently phosphorylated by p38.

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Related Products

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<tr>
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CycLex® PDK1 Assay/Inhibitor Screening Kit

The PDK1/Akt signaling pathway plays a key role in cancer cell growth, survival, and tumor angiogenesis.

The CycLex® PDK1 Assay/Inhibitor Screening Kit is designed to measure the activities of purified PDK1 for the rapid and sensitive evaluation of inhibitors using recombinant PDK1. The phospho-threonine specific polyclonal antibody used in this assay kit has been demonstrated to recognize the phospho-threonine 308 in AKT1, which is efficiently phosphorylated by PDK1.

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Related Products

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<tbody>
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CycLex® Polo-like kinase-1 (PLK-1) Assay/Inhibitor Screening Kit

Polo-like kinases (PLK) are important contributors to several cell-cycle events. PLKs function in centrosome assembly and separation during the formation of the bipolar spindle. In mammalian cells, antibody microinjection suggests a role for PLK1 in centrosome maturation and in the separation of sister chromatids during mitosis. Elevated expression of PLK-1 occurs in many different types of cancer, and PLK-1 has been proposed as a marker for several tumors.

The colorimetric CycLex® Polo-like kinase-1 (PLK-1) Inhibitor Screening Kit uses an HRP-coupled polyclonal anti-phosphothreonine to detect phosphorylation of a proprietary, specific PLK-1 substrate. The assay provides a non-isotopic, sensitive, and specific method to screen for activators or inhibitors of PLK-1 activity.

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Related Products

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CycLex® Polo-like kinase-3 (PLK-3) Assay/Inhibitor Screening Kit

Polo-like kinases (PLK) are important contributors to several cell-cycle events. PLK-3 contributes to regulation of M phase of the cell cycle. In contrast to PLK-1, overexpression of PLK-3 in mammalian cells suppresses proliferation, inhibits colony formation, and induces apoptosis and chromatin condensation. PLK-3 has therefore been suggested as a candidate tumor suppressor, and its expression is down-regulated or absent in several human carcinomas. PLK-3 functionally links DNA damage to cell cycle arrest and apoptosis via interaction with p53.

The CycLex® Polo-like kinase-3 (PLK-3) Assay/Inhibitor Screening Kit uses a monoclonal anti-phosphoserine to detect phosphorylation of a proprietary, recombinant protein that is a specific PLK-3 substrate. The nonradioactive ELISA-format assay permits easy and sensitive detection of the effects of pharmacological agents on PLK-3 activity.

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MESACUP® PKA/PKC Protein Kinase Assay Kit

MBL has developed the MESACUP® Protein Kinase Assay Kit to provide a simple, reliable and non-radioactive method for measuring the activities of either cAMP-dependent protein kinase (PKA) or protein kinase C (PKC). The kit is based on an enzyme linked immunosorbent assay (ELISA) that uses a synthetic pseudosubstrate peptide and a monoclonal antibody recognizing the phosphorylated form of the peptide. By using different buffers and including either cAMP (for assaying PKA) or calcium and phosphatidylserine (for assaying PKC), the same kit can be used to specifically detect activity by either kinase. The assay can be performed on crude cell extracts, column fractions or purified enzymes and excels in detecting the effects of pharmacological agents on PKA/PKC.

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Related Products

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<th>Quantity</th>
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<tbody>
<tr>
<td>JM-K371-100</td>
<td>cAMP Activity Assay Kit</td>
<td>100 tests</td>
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</table>

For more information and to order, go to www.mblintl.com
Serine/Threonine Kinases

CycLex® Protein Kinase C (PKC) Superfamily Assay Kit

PKC isoenzymes are involved in multiple biochemical processes relevant to cell growth, differentiation, and transformation. PKC plays critical roles in transducing signals from a plethora of extracellular receptors, including those for hormones, neurotransmitters, growth factors, and antigens. At present, the PKC family of serine/threonine-specific protein kinases includes eleven known members that exhibit differences in tissue distribution, intracellular localization, and cofactor requirements. The PKC isoenzymes are grouped into three subfamilies. Members of the Ca\textsuperscript{2+}-dependent subfamily (conventional PKCs), include PKC\textsubscript{α}, PKC\textsubscript{βI} and PKC\textsubscript{βII}, and PKC\textsubscript{γ}. Members of the second subfamily (novel PKCs) can bind acidic phospholipids but are Ca\textsuperscript{2+}-independent and include PKC\textsubscript{δ}, PKC\textsubscript{ε}, PKC\textsubscript{η}, PKC\textsubscript{θ} and PKC\textsubscript{μ}. A third PKC subfamily (atypical) includes PKC\textsubscript{ζ} and PKC\textsubscript{ι/λ}, which cannot bind phospholipids or phorbol esters.

The CycLex® Protein Kinase C Superfamily Assay Kit is ideal for detecting the activity of purified Protein Kinase C (PKC) in high throughput screening applications. The phospho-specific monoclonal antibody used in this assay binds to the phospho-Thr38 residue in CPI-17, which is efficiently phosphorylated by PKC. The kit can be used to determine the PKC activity in column fractions, cell lysates, and tissue homogenates.

The B-RAF gene has recently been reported to have somatic mutations in 66% of malignant melanomas, as well as being implicated in many other human malignancies. The CycLex® Raf kinase Assay/Inhibitor Screening Kit is designed to measure the activities of purified Raf-1, A-Raf or B-Raf for the rapid and sensitive evaluation of inhibitors using recombinant Raf kinases. The phospho-threonine specific monoclonal antibody used in this assay kit has been demonstrated to recognize the phospho-threonine residue in a specific Raf-substrate that is efficiently phosphorylated by Raf kinases.

For more information and to order, go to www.mblintl.com
Rho Kinase (ROCK) regulates the formation of actin stress fibers and focal adhesion. ROCK also is involved in smooth muscle contraction via phosphorylation of myosin light chain and the myosin binding subunit of myosin phosphatase (MBSP). ROCK is cleaved by caspase-3 during apoptosis, and it modulates aqueous humor outflow, making Rho kinase a target for the development of drugs to control intraocular pressure in glaucoma patients.

The CycLex® Rho-kinase Assay Kit uses anti-phospho-MBS(Thr696) monoclonal antibody to specifically detect Rho kinase activity. The kit may also be used for the detection of myotonic dystrophy protein kinase (DMPK) activity. The kit is ideal for screening for activators and inhibitors of ROCK activity.

<table>
<thead>
<tr>
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Related Products

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<th>Quantity</th>
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<tr>
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<td>CY-E1160-2</td>
<td>DMPK Positive Control</td>
<td>1 unit</td>
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<td>CY-M1011</td>
<td>Anti-Phospho-MBS/MYPT(Thr696) Monoclonal Antibody</td>
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Tyrosine Kinases

DYRK2 regulates p53 to induce apoptosis in response to DNA damage. The CycLex® DYRK2 Kinase Assay/Inhibitor Screening Kit is designed to measure the activities of purified DYRK2 for the rapid and sensitive evaluation of inhibitors or activators. The phospho-serine specific monoclonal antibody used in this assay kit has been demonstrated to recognize the phospho-serine 46 residue in p53, which is phosphorylated by DYRK2 in vitro.

<table>
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<tr>
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<tr>
<td>CY-1181</td>
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For more information and to order, go to www.mblintl.com
**Tyrosine Kinases**

**CycLex® FGRFR2 Kinase Assay/Inhibitor Screening Kit**

The fibroblast growth factor receptor (FGFR) family consists of four known members, FGFR1-4. The FGFR1 and FGFR2 genes are expressed in both normal and breast cancer tissues, and overexpression of FGFR1 and FGFR2 has been reported in 5–10% of primary breast cancer specimens12). The FGFR2 gene is localized to the same chromosomal region as the mutation responsible for Crouzon syndrome, and FGFR2 has been identified as a candidate marker for the clinical disorder13). Mutations in the FGFR2 gene are found in patients with Crouzon syndrome, Apert syndrome, Pfeiffer syndrome, and Jackson-Weiss syndrome.

The CycLex® FGFR2 Kinase Assay/Inhibitor Screening Kit is designed for the rapid and sensitive evaluation of inhibitors or activators of FGFR2 in an easy, nonradioactive ELISA-format assay. The phosphotyrosine-specific monoclonal antibody in this assay kit recognizes the phosphotyrosine residue in recombinant “Tyrosine kinase-substrate-1”, which is efficiently phosphorylated by the recombinant catalytic domain of FGFR2 in vitro.

<table>
<thead>
<tr>
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<td>CY-1082</td>
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**Related Products**

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<th>Products</th>
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<tr>
<td>CY-E1082</td>
<td>p56/Lck Kinase Recombinant Positive Control</td>
<td>100 units</td>
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</table>

**CycLex® Lck Kinase Assay/Inhibitor Screening Kit**

Lck is a 56-kDa tyrosine kinase that is predominantly expressed in T lymphocytes, where its overexpression renders T cells hypersensitive to antigen stimulation. Mice deficient in Lck exhibit a severe defect in T cell maturation. A member of the Src kinase family, Lck is activated by the binding of CD4 to class II MHC molecules on antigen-presenting cells. A portion of cellular Lck associates with CD4 to propagate key biochemical signals in CD4 co-receptor function14).

The CycLex® Lck Kinase Assay/Inhibitor Screening Kit is a single-site immunoassay for measuring the kinase activity of the recombinant catalytic domain of Lck. The "Tyrosine kinase-binding module-1" is used to bind Lck to a microtiter plate and subsequently activate Lck activity. The phosphotyrosine detector antibody specifically recognizes the phosphotyrosine residue on the catalytic domain of Lck itself, permitting the kit to efficiently measure the intensity of the autophosphorylation of Lck.

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Products</th>
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**Related Products**

<table>
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<tr>
<td>CY-E1084</td>
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<td>100 units</td>
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</table>

For more information and to order, go to www.mblintl.com
Met receptor tyrosine kinase is a disulfide-linked, heterodimeric receptor expressed predominantly in epithelial cells. The ligand of the Met receptor is Hepatocyte Growth Factor (HGF/scatter factor). Signaling pathways activated by the HGF-Met interaction are involved in cell adhesion and motility. Additionally, Met mediates malignant cell transformation. Increased Met expression has been found in a significant percentage of human cancers and is amplified during the transition between primary tumors and metastasis. Dysregulation of Met activity in cells is a key event underlying tumor metastasis, and Met overexpression and hyperactivation correlate with the metastatic ability of tumor cells.[15]

The CycLex® Met Kinase Assay/Inhibitor Screening Kit measures the activities of recombinant catalytic domain of Met for the rapid and sensitive evaluation of inhibitors or activators. An anti-phosphotyrosine monoclonal antibody specifically recognizes the phosphotyrosine residue in the recombinant catalytic domain of Met, which is captured and activated by recombinant “Tyrosine kinase-binding module-1” that has been immobilized on a microtiter plate.

### Related Products

<table>
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<td>CY-1080</td>
<td>CycLex® Met Kinase Assay/Inhibitor Screening Kit</td>
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</table>

**CycLex® Pyk2 Kinase Assay/Inhibitor Screening Kit**

Pyk2 (Proline-rich Tyrosine Kinase 2), a member of the focal adhesion kinase family, is a stress-sensitive mediator of the JNK signaling pathway[16]. Activation of Pyk2 kinase leads to the modulation of ion channel function and initiation of the MAP kinase[38] cascade. Pyk2 is activated in response to various stimuli, such as TNF-α, changes in osmolarity, elevation in intracellular Ca²⁺ concentration, lysophosphatidic acid, and the neuropeptide bradykinin. Pyk2 is expressed mainly in the central nervous system and in hematopoietic cells. Pyk2 represents an important signaling intermediate between neuropeptides-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity.[17]

The CycLex® Pyk2 Kinase Assay/Inhibitor Screening Kit includes “Tyrosine kinase-substrate-1”, a recombinant substrate bound to the plate, which is efficiently phosphorylated by the recombinant catalytic domain of Pyk2. A phosphotyrosine monoclonal antibody detects phosphorylation of the substrate in a sensitive, colorimetric immunoassay. The kit is ideal for HTS screening of Pyk2 activators and inhibitors.

### Related Products

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Products</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>CY-1081</td>
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</table>

For more information and to order, go to www.mblintl.com
Tyrosine Kinases

The Src family of non-receptor protein tyrosine kinases plays critical roles in a variety of signal transduction pathways, regulating such diverse processes as cell division, motility, adhesion, angiogenesis, and survival. Src family kinases are capable of inducing malignant transformation of a variety of cell types and are frequently overexpressed in many cancers, especially colorectal and breast cancers. Further, the extent of increased Src activity correlates with malignant potential and patient survival. Src is important for multiple aspects of tumor progression, including proliferation, disruption of cell/cell contacts, migration, invasiveness, resistance to apoptosis, and angiogenesis.

The CycLex® Src Kinase Assay/Inhibitor Screening Kit is a single-site, non-quantitative immunoassay for kinase activity of the catalytic domain of Src. Plates are pre-coated with a "Tyrosine kinase-binding module-1", which can easily bind the recombinant Src and subsequently activate Src kinase activity. An antibody specifically detects the phosphotyrosine residue on the recombinant catalytic domain of Src itself, which means that this kit measures the intensity of autophosphorylation of the Src catalytic domain. The assay may be used in HTS to detect the effects of pharmacological agents on the recombinant catalytic domain of Src.

### Related Products

<table>
<thead>
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<th>Code No.</th>
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<th>Quantity</th>
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<td>CY-1083</td>
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### Wee1 Kinase Assay/Inhibitor Screening Kit

Wee1 kinase negatively regulates entry into mitosis by catalyzing the inhibitory tyrosine phosphorylation of Cdc2/cyclin B kinase. Wee1 activity increases during S and G2 phases, but is sharply decreased during M phase. Wee1, along with Cdk1, also regulates the G2 DNA damage checkpoint in p53-deficient tumor cells, mostly likely by inhibiting Cdc2 activity.

The phospho-tyrosine specific monoclonal antibody used in the CycLex® Wee1 Kinase Assay/Inhibitor Screening Kit recognizes the phospho-Tyr15 residue in Cdc2, which is phosphorylated by Wee1 in vitro. This assay provides a non-isotopic, sensitive and specific method to measure the activities of Wee1 kinase in a 96-well ELISA format. The kit is ideal for screening for activators and inhibitors of Wee1 activity.

### Related Products

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Products</th>
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<tr>
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</tbody>
</table>

For more information and to order, go to [www.mblintl.com](http://www.mblintl.com)
Fluorometric Phosphatase Assay Kits

**CycLex® Protein Tyrosine Phosphatase 1B (PTP1B) Fluorometric Assay Kit**

Protein-tyrosine phosphatase (PTP1B) is a ubiquitous, non-transmembrane tyrosine phosphatase that negatively regulates insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase. In addition to modulation of insulin sensitivity, PTP1B plays a role in fuel metabolism via regulation of the leptin receptor pathway. PTP1B is a potential therapeutic target for the treatment of type II diabetes and obesity.

The CycLex® PTP1B Fluorometric Assay Kit is a fluorometric, non-radioactive assay designed to measure the activity of PTP1B. This 96-well assay is useful for the sensitive screening and evaluation of inhibitors and modulators of PTP1B activity in HTS applications. The kit includes all necessary components, including recombinant human PTP1B (residues 1-322), for use in preinvestigational drug discovery assays.

**Related Products**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Products</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>CY-1350</td>
<td>CycLex® Protein Tyrosine Phosphatase 1B (PTP1B) Fluorometric Assay Kit</td>
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<tr>
<td>CY-E1350</td>
<td>Protein Tyrosine Phosphatase 1B (PTP1B) Positive Control</td>
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**CycLex® Protein Phosphatase LMW-PTP/ACP1 Fluorometric Assay Kit**

LMW-PTP/ACP1 is a positive regulator of both tumor onset and development through ephrin-EphA2 signaling process, and it is a potential target of anticancer drug development.

The CycLex® Protein Phosphatase LMW-PTP/ACP1 Fluorometric Assay Kit is a fluorometric and non-radioactive assay designed to measure the activity of LMW-PTP/ACP1 protein phosphatase. This 96-well assay is useful for screening inhibitors and modulators of LMW-PTP/ACP1 activity in HTS. The kit includes all necessary components, including recombinant, full length LMW-PTP/ACP1, for use in preinvestigational drug discovery assays.

**Related Products**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Products</th>
<th>Quantity</th>
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<tr>
<td>CY-1358</td>
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<tr>
<td>CY-E1358</td>
<td>LMW-PTP/ACP1 Positive Control</td>
<td>100 assays</td>
</tr>
</tbody>
</table>

For more information and to order, go to [www.mblintl.com](http://www.mblintl.com)
T-cell protein tyrosine phosphatase (TC-PTP) is an intracellular phosphatase implicated in the regulation of growth factor signaling. Both the EGF receptor and the adaptor protein p52Shc have been implicated in the regulation of growth factor signaling. Additionally, TC-PTP has been linked to the dephosphorylation of the Jak family of tyrosine kinases insulin receptor and acts as a negative regulator of cytokine signaling via dephosphorylation of the Jak family of tyrosine kinases.

The CycLex® T-PTP Fluorometric Assay Kit is a convenient, highly sensitive, homogeneous assay suitable for high throughput screening applications. First, Fluoro-Phospho-Substrate, a unique phosphorylated PTP substrate, is incubated with human TC-PTP enzyme. Dephosphorylation of the substrate sensitizes it so that, in the second step, treatment with the development solution produces a fluorophore that is easily analyzed using a fluorometric plate reader or a fluorometer.

### Code No. Products Quantity
| CY-1351  | CycLex® T Cell Protein Tyrosine Phosphatase (TC-PTP) Fluorometric Assay Kit 100 assays |

### Related Products

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<th>Code No. Products</th>
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<td>CY-81351</td>
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### Phospho-Specific Antibodies

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### References


For more information and to order, go to www.mblintl.com
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<td>Anti-Phospho-HDAC6</td>
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