

Smart-IP Series

Anti-GFP mAb-Magnetic Agarose

CODE No.	D153-10
CLONALITY	Monoclonal
CLONE	RQ2
ISOTYPE	Rat IgG2a
QUANTITY	20 tests (Gel: 200 µL)
SOURCE	Purified IgG from hybridoma supernatant
IMMUNOGEN	GFP purified from GFP expressed 293T
REACTIVITY	This antibody reacts with GFP, EBFP, ECFP, EGFP, Venus and Sapphire.
FORMURATION	100 µg of antibody is covalently coupled to 200 µL of magnetic agarose gel and provided as 400 µL gel slurry suspended in PBS/0.09% NaN ₃

*Azide may react with copper or lead in plumbing system to form explosive metal azides. Therefore, always flush plenty of water when disposing materials containing azide into drain.

STORAGE This beads suspension is stable for one year from the date of purchase when stored at 4°C.

APPLICATION-CONFIRMED

Immunoprecipitation 10 µL of gel/400 µL of cell extract from 2 x 10⁶ cells

REFERENCES

- 1) Cai, L., *et al.*, *J. Biol. Chem.* **286**, 35915-35921 (2011)
- 2) Sato, Y., *et al.*, *J. Biol. Chem.* **284**, 11873-11881 (2009)
- 3) Sakurai, T., *et al.*, *J. Cell Biol.* **183**, 339-352 (2008)

Clone RQ2 is used in these references.

For more information, please visit our web site <https://ruo.mbl.co.jp/>

RELATED PRODUCTS

Smart-IP series

3190	Magnetic Rack
D153-10	anti-GFP-Magnetic Agarose (RQ2)
M185-10	anti-DDDDK-tag-Magnetic Agarose (FLA-1)
D291-10	anti-His-tag-Magnetic Agarose (OGHis)
M165-10	anti-RFP-Magnetic Agarose (3G5)
M132-10	anti-HA-tag-Magnetic Agarose (5D8)
M180-10	anti-HA-tag-Magnetic Agarose (TANA2)
M047-10	anti-Myc-tag-Magnetic Agarose (PL14)
M167-10	anti-V5-tag-Magnetic Agarose (1H6)
D153-9	anti-GFP-Magnetic beads (RQ2)
M185-9	anti-DDDDK-tag-Magnetic beads (FLA-1)
D291-9	anti-His-tag-Magnetic beads (OGHis)
M165-9	anti-RFP-Magnetic beads (3G5)
M132-9	anti-HA-tag-Magnetic beads (5D8)
M180-9	anti-HA-tag-Magnetic beads (TANA2)
M047-9	anti-Myc-tag-Magnetic beads (PL14)
M167-9	anti-V5-tag-Magnetic beads (1H6)
D058-9	anti-Multi Ubiquitin-Magnetic beads (FK2)

Antibodies

D153-3	anti-GFP (RQ2)
D153-8	anti-GFP-agarose (RQ2)
598	anti-GFP (polyclonal)
598-7	anti-GFP HRP-Direct (polyclonal)
M048-3	anti-GFP (1E4)
M185-3L	anti-DDDDK-tag (FLA-1) (1 mL)
M185-3LL	anti-DDDDK-tag (FLA-1) (5 mL)
M185-3S	anti-DDDDK-tag (FLA-1) (50 µL)
M185-7	anti-DDDDK-tag-HRP-Direct (FLA-1)
PM020	anti-DDDDK-tag (polyclonal)
PM020-7	anti-DDDDK-tag HRP-Direct (polyclonal)
PM020-8	anti-DDDDK-tag-agarose (polyclonal)
M180-3	anti-HA-tag (TANA2) (200 µL)
M180-3S	anti-HA-tag (TANA2) (50 µL)
M180-7	anti-HA-tag-HRP-Direct (TANA2)
561	anti-HA-tag (polyclonal) (0.1 mL)
561-5	anti-HA-tag (polyclonal) (0.5 mL)
561-7	anti-HA-tag HRP-Direct (polyclonal)
561-8	anti-HA-tag-agarose (polyclonal)
M132-3	anti-HA-tag (5D8)
D291-3	anti-His-tag (OGHis) (200 µL)
D291-3S	anti-His-tag (OGHis) (50 µL)
D291-6	anti-His-tag-biotin
D291-7	anti-His-tag HRP-Direct (OGHis)
D291-8	anti-His-tag-agarose (OGHis)
M089-3	anti-His-tag (6C4)
M136-3	anti-His-tag (2D8)
PM032	anti-His-tag (polyclonal)
PM032-8	anti-His-tag-agarose (polyclonal)
PM005	anti-RFP (polyclonal)
PM005-7	anti-RFP HRP-Direct (polyclonal)
M155-3	anti-RFP (8D6)
M165-3	anti-RFP (3G5)
M165-8	anti-RFP-agarose (3G5)
M192-3	anti-Myc-tag (My3) (200 µL)
M192-3S	anti-Myc-tag (My3) (50 µL)
M047-3	anti-Myc-tag (PL14)
M047-6	anti-Myc-tag-biotin (PL14)

M047-7	anti-Myc-tag HRP-Direct (PL14)
M047-8	anti-Myc-tag-agarose (PL14)
M047-A48	anti-Myc-tag-Alexa Fluor® 488 (PL14)
M047-A59	anti-Myc-tag-Alexa Fluor® 594 (PL14)
M047-A64	anti-Myc-tag-Alexa Fluor® 647 (PL14)
562	anti-Myc-tag (polyclonal) (0.1 mL)
562-5	anti-Myc-tag (polyclonal) (0.5 mL)
PM021	anti-S-tag (polyclonal)
PM021-8	anti-S-tag-agarose (polyclonal)
PM022	anti-T7-tag (polyclonal)
PM022-8	anti-T7-tag-agarose (polyclonal)
M167-3	anti-V5-tag (1H6)
PM003	anti-V5-tag (polyclonal)
PM003-7	anti-V5-tag HRP-Direct (polyclonal)
M003-8	anti-V5-tag-agarose (polyclonal)
563	anti-VSV-G-tag (polyclonal)
563-8	anti-VSV-G-tag-agarose (polyclonal)
M071-3	anti-GST-tag (3B2)
PM013	anti-GST-tag (polyclonal)
PM013-7	anti-GST-tag HRP-Direct (polyclonal)

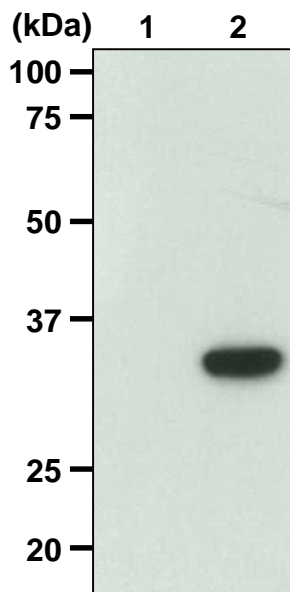
Protein Purification Kit

3305	c-Myc-tagged Protein Mild Purification Kit
3305A	c-Myc-tagged Protein Mild Purification Kit (Trial Kit)
3306	c-Myc-tagged Protein Mild Purification Gel with Elution Peptide (1 mL gel, 1 mg peptide)
3307	c-Myc-tagged Protein Mild Purification Gel with Elution Peptide (5 mL gel, 5 mg peptide)
3300-205	c-Myc-tag peptide (5 mg)
3310	His-tagged Protein Purification Kit
3310A	His-tagged Protein Purification Kit (Trial Kit)
3310-205	His-tag peptide (10mg)
3311	His-tagged Protein Purification Gel with Elution Peptide (1 mL gel, 10 mg peptide)
3312	His-tagged Protein Purification Gel with Elution Peptide (5 mL gel, 50 mg peptide)
3315	V5-tagged Protein Purification Kit
3315A	V5-tagged Protein Purification Kit (Trial Kit)
3320	HA-tagged Protein Purification Kit
3320A	HA-tagged Protein Purification Kit (Trial Kit)
3320-205	HA-tag peptide (10 mg)
3321	HA-tagged Protein Purification Gel (1 mL)
3325	DDDDK-tagged Protein Purification Kit
3325A	DDDDK-tagged Protein Purification Kit (Trial Kit)
3325-205	DDDDK-tag peptide (5 mg)
3326	DDDDK-tagged Protein Purification Gel with Elution Peptide (1 mL gel, 5 mg peptide)
3327	DDDDK-tagged Protein Purification Gel with Elution Peptide (5 mL gel, 25 mg peptide)
3328	DDDDK-tagged Protein Purification Gel (5 mL gel)
3329	DDDDK-tagged Protein Purification Gel (25 mL gel)

Other related antibodies and kits are also available.
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Immunoprecipitation

- 1) Wash 2×10^6 cells 3 times with PBS and suspend them in 400 μL of cold Lysis buffer (50 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.05% NP-40), then sonicate briefly (up to 20 sec.).
- 2) Centrifuge the tube at 12,000 x g for 5 min. at 4°C and transfer the supernatant to another tube.
- 3) Add magnetic beads as suggested in the **APPLICATION** into 400 μL of the cell lysate. Mix well and incubate with gentle agitation for 30 min. at 4°C.
- 4) Place the tube on the magnetic rack (MBL; code no. 3190) for a few seconds.
- 5) Remove the supernatant.
- 6) Wash the beads 4 times with 1 mL of cold Lysis buffer (place the tube on the magnetic rack for a few seconds).
- 7) Resuspend the magnetic beads in 50 μL of Laemmli's sample buffer, boil for 3 min., and place the tube on the magnetic rack for a few seconds.
- 8) Load 10 μL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) and carry out electrophoresis.
- 9) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm² for 1 hr. in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacturer's manual for precise transfer procedure.
- 10) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) for overnight at 4°C.
- 11) Incubate the membrane with 1:5,000 of anti-GFP pAb-HRP-DirecT (MBL; code no. 598-7) diluted with 1% skimmed milk (in PBS, pH 7.2) PBS for 1 hr. at room temperature. (The concentration of antibody will depend on the conditions.)
- 12) Wash the membrane with PBS-T (0.05% Tween-20 in PBS) (5 min. x 3 times).
- 13) Wipe excess buffer on the membrane, then incubate it with appropriate chemiluminescence reagent for 1 min. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 14) Expose to an X-ray film in a dark room for 1 min. Develop the film as usual settings. The condition for exposure and development may vary.



Immunoprecipitation of GFP-fusion protein

Lane 1: Parental cell (293T)
Lane 2: GFP-fusion protein/293T

Immunoblotted with anti-GFP pAb-HRP-DirecT (MBL; code no. 598-7)