MBL International Corporation

RESEARCH USE ONLY

POLYCLONAL ANTIBODY

Anti-GFRα-1

Code No.	Host	Quantity
JM-6201-100	Rabbit IgG	100 µg

BACKGROUND:

Glial cell line-derived neurotrophic factor (GDNF) is a potent survival factor for central and peripheral neurons and is essential for the development of kidneys and the enteric nerves system. Physiological responses to GDNF require the presence of a novel glycosylphosphatidylinositol linked protein GDNFRα, which is a cell surface receptor for GDNF. The cDNA encoding GDNFRα from human, rat, chicken and mouse have been cloned recently. GDNFRα was also termed Ret ligand 1 (RETL1) or TGF-β-related neurotrophic factor receptor 1 (TrnR1) and nominated as GFRα-1 recently. GFRα-1 binds GDNF specifically and mediates activation of the Ret protein tyrosine kinase (PTK). Thus, GDNF, GFRα, and the Ret PTK from a complex to transduce GDNF signal and to mediate GDNF function.

PRODUCT:

Supplied as 100 µg (0.5 mg/ml) purified rabbit anti-GFRα-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% sodium azide.

IMMUNOGEN:

The immunogen used was a synthetic peptide corresponding to a.a. 369-382 of human GFRα-1.

SPECIES REACTIVITY:

Recognizes the GFRα-1 protein in human, mouse, and rat cell lysates. Not tested in other species.

APPLICATIONS:

The antibody can be used for Western blotting (1-2 µg/ml). However, the optimal conditions should be determined individually.

STORAGE:

Store the antibody at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid freeze/thaw cycles.

INTENDED USE:

For research use only. Not for human, diagnostic or therapeutic use.

REFERENCES:

1. Jing, S., *et al.* (1996) *Cell* **85**:1113-1124.
2. Treanor, J.J.S., *et al.* (1996) *Nature* **382**:80-83.