

GFRalpha-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11168**Specification**

GFRalpha-1 Antibody - Product Information

Application	WB
Primary Accession	P56159
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	51456

GFRalpha-1 Antibody - Additional Information**Gene ID** 2674

Application & Usage	Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually.
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Other Names

Glial cell line derived neurotrophic factor, GDNF, GFR alpha, GFR a, GFR-alpha, GFR-a

Target/Specificity

GFRa-1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) immunoaffinity purified rabbit anti-GFRα-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

GFRalpha-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GFRalpha-1 Antibody - Protein Information

Name GFRA1

Synonyms GDNFRA, RETL1, TRNR1

Function

Receptor for GDNF. Mediates the GDNF-induced autophosphorylation and activation of the RET receptor (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q62997}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:Q62997}. Golgi apparatus, trans-Golgi network {ECO:0000250|UniProtKB:Q62997}. Endosome {ECO:0000250|UniProtKB:Q62997}. Endosome, multivesicular body {ECO:0000250|UniProtKB:Q62997}. Note=Localizes mainly to the plasma membrane. In the presence of SORL1, shifts to vesicular structures, including trans-Golgi network, endosomes and multivesicular bodies {ECO:0000250|UniProtKB:Q62997}

GFRalpha-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GFRalpha-1 Antibody - Images

GFRalpha-1 Antibody - 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 GDNFR α , which is a cell surface receptor for GDNF. The cDNA encoding GDNFR α from human, rat, chicken and mouse have been cloned recently. GDNFR α was also termed Ret ligand 1 (RETL1) or TGF- β -related neurotrophic factor receptor 1 (TrnR1) and nominated as GFR α -1 recently. GFR α -1 binds GDNF specifically and mediates activation of the Ret protein tyrosine kinase (PTK). Thus, GDNF, GFR α and the Ret PTK form a complex to transduce GDNF signal and to mediate GDNF function.