

GFR alpha 2 Antibody
Catalog # ASC10019**Specification**

GFR alpha 2 Antibody - Product Information

Application	WB, ICC
Primary Accession	O00451
Other Accession	AAC52036 , 2145080
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 51 kDa

Application Notes	Observed: 52 kDa GFR alpha 2 antibody can be used for detection of GFR alpha 2 by Western blot at 1 µg/mL. A 52 kDa band should be detected. Antibody can also be used for immunocytochemistry starting at 5 µg/mL.
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GFR alpha 2 Antibody - Additional Information

Gene ID **2675**

Other Names

GFR alpha 2 Antibody: NTNRA, RETL2, TRNR2, GDNFRB, NRTNR-ALPHA, GDNF family receptor alpha-2, GDNF receptor beta, GDNF receptor alpha-2, GDNF family receptor alpha 2

Target/Specificity

GFRA2;

Reconstitution & Storage

GFR alpha 2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

GFR alpha 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GFR alpha 2 Antibody - Protein Information

Name GFRA2

Synonyms GDNFRB, RETL2, TRNR2

Function

Receptor for neurturin. Mediates the NRTN-induced autophosphorylation and activation of the RET

receptor. Also able to mediate GDNF signaling through the RET tyrosine kinase receptor.

Cellular Location

Cell membrane; Lipid-anchor, GPI- anchor

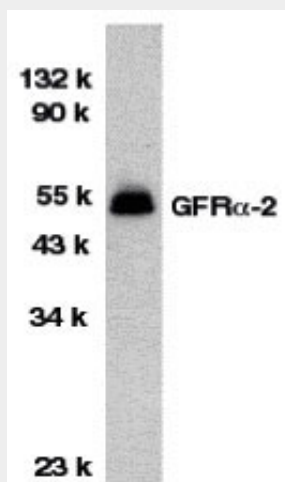
Tissue Location

Isoform 1 is found in both brain and placenta.

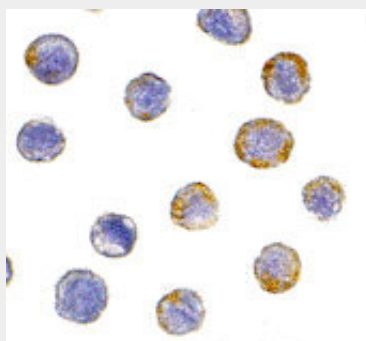
GFR alpha 2 Antibody - Protocols

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](#)

GFR alpha 2 Antibody - Images

Western blot analysis of GFR alpha 2 in HeLa total cell lysate with GFR alpha 2 antibody at 1 µg/mL.



Immunocytochemistry of GFR alpha 2 in HeLa cells with GFR alpha 2 antibody at 5 µg/mL.

GFR alpha 2 Antibody - Background

GFR alpha 2 Antibody: Members of the glial cell line-derived neurotrophic factor (GDNF) family, including GDNF and neurturin (NTN) play key roles in the control of vertebrate neuron survival and differentiation. Physiological responses to NTN require the presence of a novel glycosylphosphatidylinositol linked protein NTN α , which is a cell surface receptor for NTN. The cDNAs encoding NTN α from human, rat, chicken, and mouse have been cloned recently. NTN α was also termed GDNFR β , Ret ligand 2 (RETL2) or TGF β -related neurotrophic factor receptor 2 (TrnR2) and nominated as GFR α -2 recently. GFR α -2 binds NTN and mediates activation of RET receptor tyrosine kinase by both NTN and GDNF. Thus, NTN, GFR α -2, and the Ret PTK form a complex to transduce NTN signal and to mediate NTN function.

GFR alpha 2 Antibody - References

Kotzbauer PT, Lampe PA, Heuckeroth RO, et al. Neurturin, a relative glial-cell-line-derived neurotrophic factor. *Nature* 1996; 384:467-70.
Klein RD, Sherman D, Ho WH, et al. A GPI-linked protein that interacts with Ret to form a candidate neurturin receptor. *Nature* 1997; 387:717-21.
Buj-Bello A, Adu J, Pinon LG, et al. Neurturin responsiveness requires a GPI-linked receptor and the Ret receptor tyrosine kinase. *Nature* 1997; 387:721-4.
Baloh RH, Tansey MG, Golden JP, et al. TrnR2, a novel receptor that mediates neurturin and GDNF signaling through Ret. *Neuron* 1997; 18:793-802.