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GFR α -1 (IN) (GDNFR α) (GDNF receptor). Rabbit Polyclonal Antibody

Rabbit anti-Glial Cell Derived Neurotrophic Factor Receptor α -1 (Second Intracellular Loop), Human, Mouse, Rat

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^{1,2}. The cDNAs encoding GDNFR α from human, rat, chicken and mouse have been cloned recently¹⁻⁵. GDNFR α was also termed Ret ligand 1 (RETL1) or TGF- β -related neurotrophic factor receptor 1 (TrnR1) and nominated as GFR α -1 recently⁵⁻⁷. 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.

ORDERING INFORMATION

CATALOG NUMBER

X1138P

SIZE

100 μ g

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot, IHC

SPECIES REACTIVITY

Human, Mouse, Rat

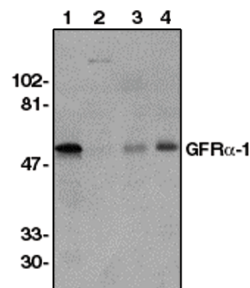
ACCESSION NUMBER

Human P56159

IMMUNOGEN

Synthetic peptide corresponding to amino acids 369 to 382 of human GFR α -1

Western blot analysis using GFR α -1 antibody (Cat. No. X1138P) on human brain (1), liver (2), kidney (3) and spleen (4) crude membrane fractions.



POSITIVE CONTROL/TISSUE EXPRESSION

Human brain tissue lysate

COMMENTS

Detects human GFR α -1 by Western blot at 1 μ g/ml. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

DEAE Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Jing, S., et al. 'GDNF-induced activation of the Ret protein tyrosien kinase is mediated by GDNFR- α , a novel receptor for GDNF.' Cell, 1996, 85, 1113-1124.
2. Treanor, J.J.S., et al. 'Characterization of a multicomponent receptor for GDNF.' Nature 1996, 382, 80-83.
3. Sanicola, M., et al. 'Glial cell line-derived neurotrophic factor-dependent RET activation can be mediated by two different cell-surface accessory proteins.' Proc. Natl. Acad. Sci. USA 1997, 94, 6238-6243
4. Buj-Bello, A., et al. 'Neurturin responsiveness requires a GPI-linked receptor and the Ret receptor tyrosine kinase.' Nature 1997, 387, 721-724
5. Dey, B.K., et al. 'Cloning of a novel murine isoform of the glial cell line-derived neurotrophic factor receptor.' Neuroreport 1998, 9, 37-42
6. Baloh RH, et al. 'TrnR2, a novel receptor that mediates neurturin and GDNF signaling through Ret.' Neuron 1997, 18, 793-802
7. Nomenclature Committee. Nomenclature of GPI-linked receptors for the GDNF ligand family. GFR α .. Neuron 1997, 19, 485

PRODUCT SPECIFIC REFERENCES