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Zuschläge

- Mindermengenzuschlag
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GFR α -2 (IN). Rabbit Polyclonal Antibody
GDNFRb (IN), GDNFRbeta (IN), Neurturin receptor alpha, RET ligand 2

BACKGROUND

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 NTNR α , which is a cell surface receptor for NTN. The cDNAs encoding NTNR α from human, rat, chicken, and mouse have been cloned recently. NTNR α was also termed GDNFR, 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.

ORDERING INFORMATION

CATALOG NUMBER
X1792P

SIZE
100 μ g
FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided as solution in phosphate buffered saline with 0.02% sodium azide

CONCENTRATION
See vial for concentration

ISOTYPE
IgG

APPLICATIONS
Western Blot

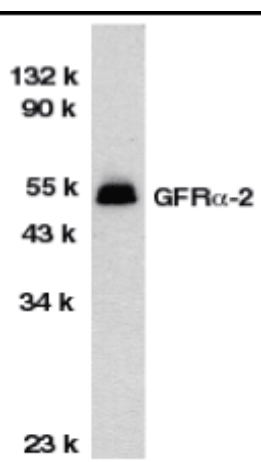
SPECIES REACTIVITY
Human, Mouse, Rat

ACCESSION NUMBER
Human O00451

IMMUNOGEN

Peptide corresponding to amino acids 377 to 391 of human GFR α -2. The amino acid sequences of immunogenic peptide are identical to those of mouse and rat.

Western blot analysis of GFR α -2 in HeLa total cell lysate with GFR α -2 antibody at 1:1000 dilution.



POSITIVE CONTROL/TISSUE EXPRESSION

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. Positive Control: HeLa Cell Lysate

COMMENTS

GFRalpha-2 (IN) antibody can be used for detection of GFRalpha-2 by Western blot at 1:1000 to 1:2000 dilution. A 52 kDa band should be detected.

PURIFICATION

Antigen Immunoaffinity 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) Kotzbauer PT, Lampe PA, Heuckeroth RO, Golden JP, Creedon DJ, Johnson EM Jr, Ibrandt J. Neurturin, a relative glial-cell-line-derived neurotrophic factor. *Nature* 1996;384:467-470.
- 2) Klein RD, Sherman D, Ho WH, Stone D, Bennett GL, Moffat B, Vandlen R, Simmons L, Gu Q, Hongo JA, Devaux B, Poulsen K, Armanini M, Nozaki C, Asai N, Goddard A, Phillips H, Henderson CE, Takahashi M, Rosenthal A. A GPI-linked protein that interacts with Ret to form a candidate neurturin receptor. *Nature* 1997;387:717-721.
- 3) Buj-Bello A, Adu J, Pinon LG, Horton A, Thompson J, Rosenthal A, Chinchetru M, Buchman VL, Davies AM. Neurturin responsiveness requires a GPI-linked receptor and the Ret receptor tyrosine kinase. *Nature* 1997;387:721-724
- 4) Baloh RH, Tansey MG, Golden JP, Creedon DJ, Heuckeroth RO, Keck CL, Zimonjic DB, Popescu NC, Johnson EM Jr, Milbrandt J. TrnR2, a novel receptor that mediates neurturin and GDNF signaling through Ret. *Neuron* 1997;18:793-802

PRODUCT SPECIFIC REFERENCES