

Human/Mouse GFRα-2/GDNF Rα-2 Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF429U

100 µg

DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse GFRα-2/GDNF Rα-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human GFRα-3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse GFRα-2/GDNF Rα-2 Ser22-Ser441 Accession # Q3UUD8
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS			
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
Western Blot	Optimal dilution of this antibody should be experimentally determined.		
Blockade of Receptor-ligand Interaction	Optimal dilution of this antibody should be experimentally determined.		
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.		
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.		

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

BACKGROUND

Glial cell line-derived growth factor (GDNF), neurturin (NTN), persephin (PSP) and artemin, distant members of the TGF-β superfamily, are neurotrophic factors for a variety of neuronal populations in the central and peripheral nervous systems. The bioactivities of GDNF and NTN are mediated through a receptor complex composed of the non ligand-binding signaling subunit (c-Ret receptor tyrosine kinase) and either of two ligand binding subunits, GDNF receptor α-1 (GFRα-1, also known as Trn R1) or GFRα-2 (also known as Trn R2). GFRα-1 and -2 are members of a family of at least four cysteine-rich glycosyl-phosphatidylinositol (GPI)-linked cell surface proteins that share conserved placements of many of their cysteine residues. Binding of GDNF or NTN to membrane-associated GFRα-1 or GFRα-2 initiates the association with and activation of the Ret tyrosine kinase.

Mouse $GFR\alpha-2$ cDNA encodes a 463 amino acid (aa) residue protein with a putative N-terminal 21 aa residue hydrophobic signal peptide. Like other GPI-linked proteins, rat $GFR\alpha-2$ has a C-terminal hydrophobic region which is preceded by a 3 aa residue (SGS) GPI-binding site. Human $GFR\alpha-2$ shares 96.5% amino acid identity with mouse $GFR\alpha-2$. The expression of the various $GFR\alpha$ are differentially regulated in the central and peripheral nervous system, suggesting complementary roles for the $GFR\alpha$ in mediating the activities of the GDNF family of neurotrophic factors.

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