

Product datasheet for **TA305952**

GDNF Receptor alpha 1 (GFRA1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	GFR alpha 1 antibody can be used for detection of GFR alpha 1 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 1 µg/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	GFR alpha 1 antibody was raised against a 14 amino acid peptide near the center of human GFR alpha 1. The immunogen is located within amino acids 360 - 410 of GFR alpha 1.
Specificity:	GFR alpha 1 antibody is predicted to not cross-react with other members of the GFR alpha family of proteins.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	GFR alpha 1 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	GDNF family receptor alpha 1
Database Link:	NP_001138925 Entrez Gene 14585 Mouse Entrez Gene 25454 Rat Entrez Gene 2674 Human P56159



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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 GDNFRa, which is a cell surface receptor for GDNF. The cDNAs encoding GDNFRalpha from human, rat, chicken and mouse have been cloned recently. GDNFRalpha was also termed Ret ligand 1 (RETL1) or TGF-beta-related neurotrophic factor receptor 1 (TrnR1) and nominated as GFRalpha-1 recently. GFRalpha-1 binds GDNF specifically and mediates activation of the Ret protein tyrosine kinase (PTK). Thus, GDNF, GFRalpha and the Ret PTK form a complex to transduce GDNF signal and to mediate GDNF function.
Synonyms:	GDNFR; GDNFRA; GFR-ALPHA-1; RET1L; RETL1; TRNR1
Protein Families:	Druggable Genome