

Datasheet for 200-401-BK5**GFR alpha 1 Antibody****Overview**

Description:	Anti-GFR alpha 1 (RABBIT) Antibody - 200-401-BK5
Item No.:	200-401-BK5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

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 GDNFRalpha, 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 (RET1) or TGF-beta-related neurotrophic factor receptor 1 (TrnR1) and nominated as GFRA-1 recently. GFRA-1 binds GDNF specifically and mediates activation of the Ret protein tyrosine kinase (PTK). Thus, GDNF, GFRA and the Ret PTK form a complex to transduce GDNF signal and to mediate GDNF function.
Synonyms:	GFR alpha 1 Antibody, GDNFR, RET1L, RETL1, TRNR1, GDNFRA, GFR-ALPHA-1, GDNF family receptor alpha-1, RET ligand 1, GDNF receptor alpha-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GFRA1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-GFR alpha 1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid peptide near the internal region of human GFR alpha 1.
Purity/Specificity:	Anti-GFR alpha 1 Antibody is affinity chromatography purified via peptide column. The amino acid sequence of immunogenic peptide is identical to those of mouse and rat and the antibody recognizes GFR alpha 1 from human, mouse and rat origins.
Relevant Links:	• UniProtKB - P56159 • GeneID - 2674 • NCBI - NP_001138925.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-GFR alpha 1 Antibody has been tested for use in ELISA, Western Blotting, immunofluorescence, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 51 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	1.0 µg/ml
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

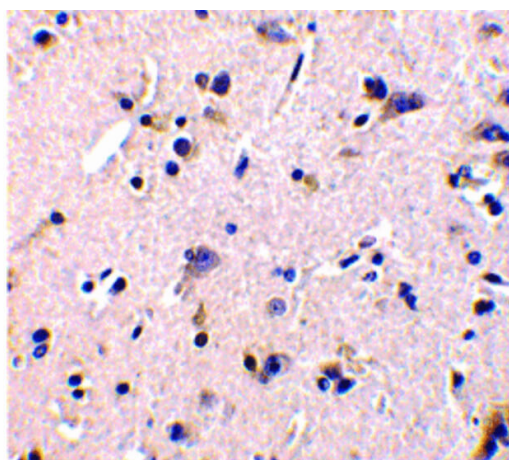
Shipping & Handling

Shipping Condition:	Wet Ice
----------------------------	---------

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

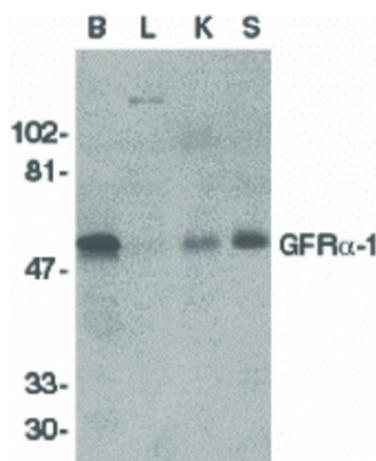
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Rabbit anti-GFR alpha 1 antibody. Tissue: human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: anti-GFR alpha 1 antibody at 1 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: GFR alpha 1 is membrane bound. Staining: GFR alpha 1 as precipitated brown signal with hematoxylin blue nuclear counterstain.



Western Blot

Western Blot of Rabbit anti-GFR alpha 1 antibody. Lane 1: human brain (B). Lane 2: human liver (L). Lane 3: human kidney (K). Lane 4: human spleen (S). Load: 35 µg per lane. Primary antibody: anti-GFR alpha 1 antibody at 1:500 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 51.5 kDa, 51 kDa for GFR alpha 1. Other band(s): GFR alpha 1 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.