

Datasheet: AHP446

Description:	RABBIT ANTI GDNFR ALPHA
Specificity:	GDNFR ALPHA
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/500 - 1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Species Cross Reactivity	Reacts with: Rat, Mouse, Human N.B. Antibody reactivity and working conditions may vary between species.
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Product Form	Purified IgG - liquid
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Antiserum Preparation Antisera to human GDNFR alpha were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared by ion exchange chromatography.

Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	0.02% Sodium Azide
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Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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Immunogen	Peptide from C terminus of human GDNFR alpha.
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**External Database
Links**

UniProt:

[P56159](#) [Related reagents](#)

Entrez Gene:

[2674](#) GFRA1 [Related reagents](#)

Synonyms

GDNFRA, RETL1, TRNR1

RRID

AB_322749

Specificity

Rabbit anti GDNF α antibody recognizes GDNFR alpha, also known as GFR α -1 ([GFR \$\alpha\$ Nomenclature Committee 1997](#)), GDNF receptor alpha-1, RET ligand 1 or TGF-beta-related neurotrophic factor receptor 1. GFR α -1 is a 465 amino acid ~52 kDa GPI anchored cell surface receptor for glial cell derived neurotrophic factor (GDNF).

GFR α -1 is highly expressed in human gliomas ([Wiesenhofer *et al.* 2000](#)).

References

1. Wiesenhofer, B. *et al.* (2000) Glial cell line-derived neurotrophic factor (GDNF) and its receptor (GFR-alpha 1) are strongly expressed in human gliomas. [Acta Neuropathol. 99: 131-7.](#)
2. Weis, C. *et al.* (2001) Nerve growth factor and glial cell line-derived neurotrophic factor restore the cholinergic neuronal phenotype in organotypic brain slices of the basal nucleus of Meynert. [Neuroscience. 102: 129-38.](#)

Further Reading

1. Jing, S. *et al.* (1996) GDNF-induced activation of the ret protein tyrosine kinase is mediated by GDNFR-alpha, a novel receptor for GDNF. [Cell. 85 \(7\): 1113-24.](#)
2. Treanor, J.J. *et al.* (1996) Characterization of a multicomponent receptor for GDNF. [Nature. 382 \(6586\): 80-3.](#)
3. (1997) Nomenclature of GPI-linked receptors for the GDNF ligand family. GFR(alpha) Nomenclature Committee. [Neuron 19: 485.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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