

## Datasheet: AHP446

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | RABBIT ANTI GDNFR ALPHA |
| <b>Specificity:</b>  | GDNFR ALPHA             |
| <b>Format:</b>       | Purified                |
| <b>Product Type:</b> | Polyclonal Antibody     |
| <b>Isotype:</b>      | Polyclonal IgG          |
| <b>Quantity:</b>     | 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](http://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.**

|                                       |                                                                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Cross Reactivity</b>       | Reacts with: Rat, Mouse, Human<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species.                                                |
| <b>Product Form</b>                   | Purified IgG - liquid                                                                                                                                             |
| <b>Antiserum Preparation</b>          | Antisera to human GDNFR alpha were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared by ion exchange chromatography. |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                                                                                         |
| <b>Preservative Stabilisers</b>       | 0.02% Sodium Azide                                                                                                                                                |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml                                                                                                                                       |
| <b>Immunogen</b>                      | Peptide from C terminus of human GDNFR alpha.                                                                                                                     |

**External Database  
Links**

**UniProt:**

[P56159](#)   [Related reagents](#)

**Entrez Gene:**

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

**Synonyms**

GNDFRA, RETL1, TRNR1

**Specificity**

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

GFR $\alpha$ -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.

**Shelf Life**

18 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](#)

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

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

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

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[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 \(STAR209P\)](#)

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
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