

## Datasheet: AHP446

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|----------------------|-------------------------|
| <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.**

### Species Cross Reactivity

Reacts with: Rat, Mouse, Human  
**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form** Purified IgG - liquid

**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

|                                       |   |
|---------------------------------------|---|
| <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.   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P56159</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">2674</a>    GFRA1    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                       | GDNFRA, RETL1, TRNR1  |
| <b>RRID</b>                           | AB_322749   |
| <b>Specificity</b>                    | <p><b>Rabbit anti GDNF<math>\alpha</math> antibody</b> recognizes GDNFR alpha, also known as GFR<math>\alpha</math>-1 (<a href="#">GFR<math>\alpha</math> Nomenclature Committee 1997</a>), GDNF receptor alpha-1, RET ligand 1 or TGF-beta-related neurotrophic factor receptor 1. GFR<math>\alpha</math>-1 is a 465 amino acid ~52 kDa GPI anchored cell surface receptor for glial cell derived neurotrophic factor (GDNF).</p> <p>GFR<math>\alpha</math>-1 is highly expressed in human gliomas (<a href="#">Wiesenhofer et al. 2000</a>).</p>  |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. Wiesenhofer, B. <i>et al.</i> (2000) Glial cell line-derived neurotrophic factor (GDNF) and its receptor (GFR-alpha 1) are strongly expressed in human gliomas. <a href="#">Acta Neuropathol. 99: 131-7.</a></li> <li>2. Weis, C. <i>et al.</i> (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. <a href="#">Neuroscience. 102: 129-38.</a></li> <li>3. Marco, S. <i>et al.</i> (2002) Excitatory amino acids differentially regulate the expression of GDNF, neurturin, and their receptors in the adult rat striatum. <a href="#">Exp Neurol. 174 (2): 243-52.</a></li> </ol> |
| <b>Further Reading</b>                | <ol style="list-style-type: none"> <li>1. Jing, S. <i>et al.</i> (1996) GDNF-induced activation of the ret protein tyrosine kinase is mediated by GDNFR-alpha, a novel receptor for GDNF. <a href="#">Cell. 85 (7): 1113-24.</a></li> <li>2. Treanor, J.J. <i>et al.</i> (1996) Characterization of a multicomponent receptor for GDNF. <a href="#">Nature. 382 (6586): 80-3.</a></li> </ol>  |
| <b>Storage</b>                        | <p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>   |
| <b>Guarantee</b>                      | 12 months from date of despatch   |

**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP446>  
10040

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
- [TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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|--------------------------------------|---|------------------|---|---------------|---|
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|--------------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M382977:210513'

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