**Description:** MOUSE ANTI HUMAN PROTEIN GENE PRODUCT 9.5

**Specificity:** PROTEIN GENE PRODUCT 9.5

**Other names:** GENE PRODUCT 9.5, NEUROSCIENCE, PGP 9.5, UCHL1

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 13C4

**Isotype:** IgG2a

**Quantity:** 0.2 ml

**RRID:** AB_620255

**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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td></td>
<td></td>
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<td>1/200</td>
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<tr>
<td>ELISA</td>
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<tr>
<td>Western Blotting</td>
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<td>1/100 - 1/1000</td>
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<tr>
<td>Immunofluorescence</td>
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</table>

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

(1) *Antigen is stable in formalin fixed paraffin embedded sections, however we recommend fixation in 95% ethanol/5% acetic acid for 2-3 hours prior to paraffin embedding. Can be used without acid/ethanol fixation if the sections are subjected to microwave treatment in citrate buffer by standard methods.*

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Rat, Guinea Pig, Pig, Beaver

**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein A

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)
Mouse anti Human protein gene product 9.5 antibody, clone 13C4 recognizes protein gene product 9.5 (PGP9.5), a ubiquitin hydrolase which is widely expressed in neuronal tissues and represents 1-2% of total soluble brain proteins. PGP9.5, also known as ubiquitin C-terminal hydrolase 1 (UCHL-1), is involved in the regulation of the ubiquitin pathway.

This product stains neuronal cell bodies and axons in the CNS and periphery, small nerve fibres in peripheral tissues, neuroendocrine cells in the pituitary, thyroid, pancreas and tumours of the DNES. Also stains neuroendocrine cells in human adult gut (unlike 31A3).

Clones 31A3 and 13C4 each recognise a different epitope towards the N-terminus of the protein.

References


### Storage

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

### Guarantee

18 months from date of despatch.

### Health And Safety Information


### Regulatory

For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos., HRP**
- Goat Anti Mouse IgG (STAR77...) **HRP**
- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Goat Anti Mouse IgG (STAR76...) **RPE**
- Goat Anti Mouse IgG (STAR70...) **FITC**
- Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**
- Rabbit Anti Mouse IgG (STAR9...) **FITC**
- Human Anti Mouse IgG2a (HCA037...) **FITC, HRP**
- Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP**

### Recommended Negative Controls

**MOUSE IgG2a NEGATIVE CONTROL (MCA929)**

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"M333926:181127"

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