

Datasheet: 7863-2004

**BATCH NUMBER 157938**

<b>Description:</b>	MOUSE ANTI HUMAN PROTEIN GENE PRODUCT 9.5
<b>Specificity:</b>	PROTEIN GENE PRODUCT 9.5
<b>Other names:</b>	PGP 9.5, UCHL1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	13C4
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.2 ml

## 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
Immunohistology - Paraffin (1)	▪			1/200
ELISA	▪			
Western Blotting	▪			1/100 - 1/1000
Immunofluorescence	▪			

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, Donkey

**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.

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	1 mg/ml
<b>Immunogen</b>	Native, from brain
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P09936</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7345</a>    UCHL1    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_620255
<b>Specificity</b>	<p><b>Mouse anti Human protein gene product 9.5 antibody, clone 13C4</b> recognizes protein gene product 9.5 (PGP9.5), a ubiquitin hydrolase widely expressed in neuronal tissues representing, by weight 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.</p> <p>Mouse anti Human protein gene product 9.5 antibody, clone 13C4 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. Mouse anti Human protein gene product 9.5 antibody, clone 13C4 stains neuroendocrine cells in human adult gut (unlike Mouse anti Human Protein Gene Product 9.5 antibody, clone <a href="#">31A3</a>).</p> <p>Clones 31A3 and 13C4 each recognize a different epitope towards the N-terminus of the protein.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wilson, P.O. <i>et al.</i> (1988) The immunolocalization of protein gene product 9.5 using rabbit polyclonal and mouse monoclonal antibodies. <a href="#">Br. J. Exp. Pathol. 69: 91-104.</a></li> <li>2. Kotani, T. <i>et al.</i> (2010) Expression of PTPRO in the interneurons of adult mouse olfactory bulb. <a href="#">J Comp Neurol. 518: 119-36.</a></li> <li>3. Buels, K.S. <i>et al.</i> (2012) Non-bronchodilating mechanisms of tiotropium prevent airway hyperreactivity in a guinea-pig model of allergic asthma. <a href="#">Br J Pharmacol. 165: 1501-14.</a></li> <li>4. Sasaki, H. <i>et al.</i> (2001) Expression of the protein gene product 9.5, PGP9.5, is correlated with T-status in non-small cell lung cancer. <a href="#">Jpn J Clin Oncol. 31: 532-5.</a></li> </ol>

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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/7863-2004>  
10040

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

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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)

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