

## Datasheet: 7863-1004

<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>	31A3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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
Immunohistology - Paraffin (1)	▪			1/100 - 1/400
ELISA	▪			1/500 - 1/2000
Western Blotting	▪			

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** 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) This antibody is suitable for use on paraffin embedded tissue sections. We do however recommend fixation in 95% ethanol/5% acetic acid for 2-3 hours prior to paraffin embedding. Specimens which have not been fixed in acetic acid/alcohol will require pretreatment using the microwave-citrate buffer method.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat, Rabbit, Pig, Water Buffalo</p> <p>Does not react with: Guinea Pig</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or</p>

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 from tissue culture supernatant
<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>	1mg/ml
<b>Immunogen</b>	Native, from brain
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P09936</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">7345</a> UCHL1 <a href="#">Related reagents</a>
<b>RRID</b>	AB_620256
<b>Specificity</b>	<p><b>Mouse anti Human Protein Gene Product 9.5 antibody, clone 31A3</b> 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.</p> <p>Mouse anti Human Protein Gene Product 9.5 antibody, clone 31A3 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.</p> <p>Clones 31A3 and <a href="#">13C4</a> each recognize a different epitope towards the N-terminus of the protein. Mouse anti Human Protein Gene Product 9.5 antibody, clone 31A3 also recognizes PGP9.5 in other species, including rat and rabbit but evidence suggests it does not bind to PGP9.5 in guinea pigs (<a href="#">Wilson <i>et al.</i> 1988</a>). Mouse anti Human Protein Gene Product 9.5 antibody, clone 31A3 has been used successfully as a capture reagent with clone 13C4 as a detection reagent in a sandwich ELISA to evaluate contamination of processed meat samples with neuronal tissue (<a href="#">Gaunitz <i>et al.</i> 2009</a>).</p>
<b>References</b>	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 (1): 91-104.</a>

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dogs with chronic asymptomatic orchitis. [Front Vet Sci. 10: 1205064.](#)

<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
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/7863-100410040">https://www.bio-rad-antibodies.com/SDS/7863-100410040</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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