

## Datasheet: MCA4750GA

**BATCH NUMBER 159617**

<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>	BH7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/5000
Immunofluorescence	▪			1/500

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 appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat, Bovine

Based on sequence similarity, is expected to react with: Mammals

**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

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.03% Sodium Azide 50% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant full length human PGP9.5 purified from <i>E.coli</i> .
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P09936</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q9R0P9</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q00981</a>      <a href="#">Related reagents</a></p> <p><a href="#">P23356</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">7345</a>      UCHL1      <a href="#">Related reagents</a></p> <p><a href="#">22223</a>      Uchl1      <a href="#">Related reagents</a></p> <p><a href="#">514394</a>      UCHL1      <a href="#">Related reagents</a></p> <p><a href="#">29545</a>      Uchl1      <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Mouse anti Human protein gene product 9.5 monoclonal antibody, clone BH7</b> recognizes protein gene product 9.5 (PGP9.5) also known as ubiquitin C terminal hydrolase 1 (UCH-L1). UCH-L1 is a thiol protease that recognises and hydrolyses a peptide bond at the C-terminal glycine of ubiquitin. This protein is closely related to UCH-L3 and both are thought to recycle ubiquitin to maintain pools of monomeric ubiquitin necessary for proteolysis. UCH-L1 is expressed in neurons and cells of the diffuse neuroendocrine system and their tumours.</p> <p>UCH-L1 and UCH-L3 have been shown to have separate and overlapping functions in the maintenance of neurons of the gracile tract, nucleus tractus solitarius (NTS) and area postrema (<a href="#">Kurihara et al. 2001</a>).</p>
<b>Western Blotting</b>	Clone BH7 detects a band of approximately 24 kDa in rat hippocampal lysate
<b>References</b>	<ol style="list-style-type: none"> <li>1. Peyrot des Gachons, C. <i>et al.</i> (2011) Unusual pungency from extra-virgin olive oil is attributable to restricted spatial expression of the receptor of oleocanthal. <a href="#">J Neurosci. 31: 999-1009.</a></li> <li>2. Yuan, H. <i>et al.</i> (2022) Primary culture of germ cells that portray stem cell characteristics and recipient preparation for autologous transplantation in the rhesus monkey. <a href="#">J Cell Mol Med. 26 (5): 1567-78.</a></li> <li>3. Zhang, W. <i>et al.</i> (2021) Direct reprogramming of human Sertoli cells into male germline</li> </ol>

stem cells with the self-renewal and differentiation potentials via overexpressing DAZL/DAZ2/BOULE genes. [Stem Cell Reports. 16 \(11\): 2798-812.](#)

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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10049 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4750GA>  
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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](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),  
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [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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