

Datasheet: MCA4750GA

BATCH NUMBER 168402

Description:	MOUSE ANTI HUMAN PROTEIN GENE PRODUCT 9.5
Specificity:	PROTEIN GENE PRODUCT 9.5
Other names:	PGP 9.5, UCHL1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	BH7
Isotype:	IgG1
Quantity:	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.

	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

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.03% Sodium Azide 50% Glycerol
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant full length human PGP9.5 purified from <i>E.coli</i> .
External Database Links	<p>UniProt:</p> <p>P09936 Related reagents</p> <p>Q9R0P9 Related reagents</p> <p>Q00981 Related reagents</p> <p>P23356 Related reagents</p> <p>Entrez Gene:</p> <p>7345 UCHL1 Related reagents</p> <p>22223 Uchl1 Related reagents</p> <p>514394 UCHL1 Related reagents</p> <p>29545 Uchl1 Related reagents</p>
Specificity	<p>Mouse anti Human protein gene product 9.5 monoclonal antibody, clone BH7 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 (Kurihara <i>et al.</i> 2001).</p>
Western Blotting	Clone BH7 detects a band of approximately 24 kDa in rat hippocampal lysate
References	<ol style="list-style-type: none"> 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. J Neurosci. 31: 999-1009. 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. J Cell Mol Med. 26 (5): 1567-78. 3. Zhang, W. <i>et al.</i> (2021) Direct reprogramming of human Sertoli cells into male germline

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

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10049 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4750GA>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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