

Product datasheet

Anti-PGP9.5 antibody [BH7] ab72911

[19 References](#) [3 Images](#)

Overview

Product name	Anti-PGP9.5 antibody [BH7]
Description	Mouse monoclonal [BH7] to PGP9.5
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant full length human PGP9.5 purified from E. coli.
Positive control	Rat hippocampal cell homogenate and rat spinal cord tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.065% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	BH7
Isotype	IgG1

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab72911 in the following tested applications.

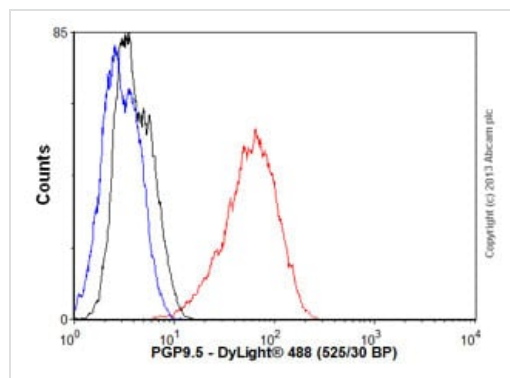
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 43 kDa (predicted molecular weight: 25 kDa).
ICC/IF		1/500.
Flow Cyt		Use 1 µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function	Ubiquitin-protein hydrolase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. Also binds to free monoubiquitin and may prevent its degradation in lysosomes. The homodimer may have ATP-independent ubiquitin ligase activity.
Tissue specificity	Found in neuronal cell bodies and processes throughout the neocortex (at protein level). Expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. Weakly expressed in ovary. Down-regulated in brains from Parkinson disease and Alzheimer disease patients.
Involvement in disease	Parkinson disease 5 Neurodegeneration with optic atrophy, childhood-onset
Sequence similarities	Belongs to the peptidase C12 family.
Post-translational modifications	O-glycosylated.
Cellular localization	Cytoplasm. Endoplasmic reticulum membrane. About 30% of total UCHL1 is associated with membranes in brain.

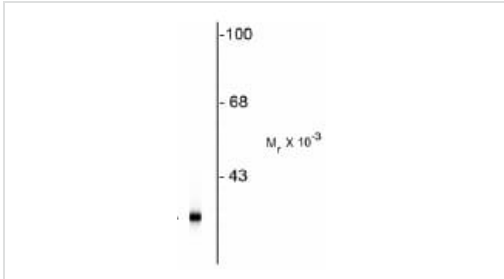
Images



Flow Cytometry - Anti-PGP9.5 antibody [BH7]
(ab72911)

Overlay histogram showing SH-SY5Y cells stained with ab72911 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab72911, 1 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H&L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2 µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and

525/30 bandpass filter. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

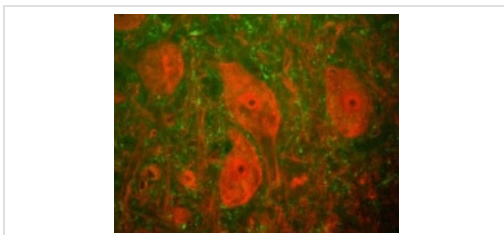


Western blot - Anti-PGP9.5 antibody [BH7] (ab72911)

Anti-PGP9.5 antibody [BH7] (ab72911) at 1/5000 dilution + rat hippocampal homogenate

Predicted band size: 25 kDa

Observed band size: <43 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PGP9.5 antibody [BH7] (ab72911)

ab72911 at 1/500 dilution staining PGP9.5 in rat spinal cord by Immunofluorescence (shown in red). Anti-neurofilament NF-H antibody staining is shown in green. The large cells are a-motoneurons and PGP9.5 fills the cytoplasm of their perikarya and dendrites.

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