

### Anti-PGP9.5 antibody - Neuronal Marker ab15503

★★★★★ [8 Abreviews](#) [17 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-PGP9.5 antibody - Neuronal Marker
<b>Description</b>	Rabbit polyclonal to PGP9.5 - Neuronal Marker
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein corresponding to Human PGP9.5. Database link: <a href="#">P09936</a>
<b>Positive control</b>	Pancreas and small intestine This antibody gave a positive result when used in the following formaldehyde fixed cell lines: DU145.
<b>General notes</b>	<p><b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b></p> <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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab15503 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)	Use at an assay dependent concentration. Predicted molecular weight: 25 kDa.
ICC/IF	★★★★★ (1)	Use a concentration of 1 µg/ml.
IHC-P	★★★★★ (3)	1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Cool at RT for 20 minutes.

## 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.

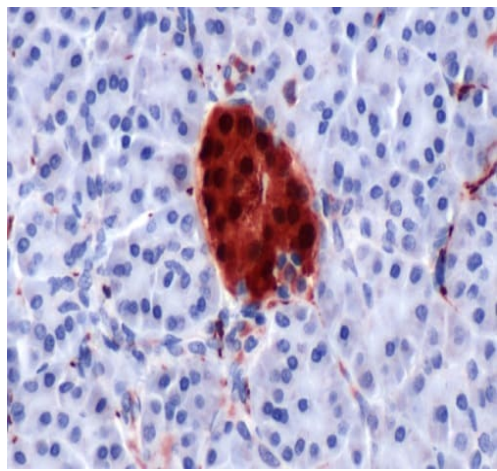
### Post-translational modifications

O-glycosylated.

### Cellular localization

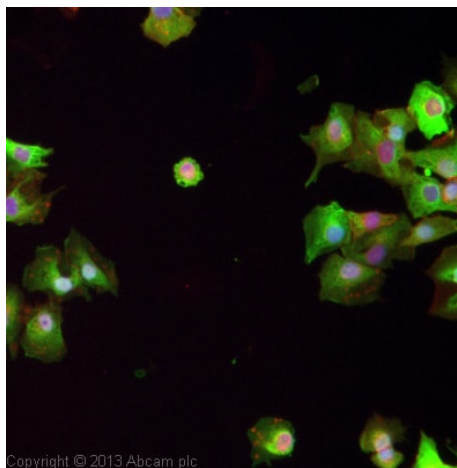
Cytoplasm. Endoplasmic reticulum membrane. About 30% of total UCHL1 is associated with membranes in brain.

## Images



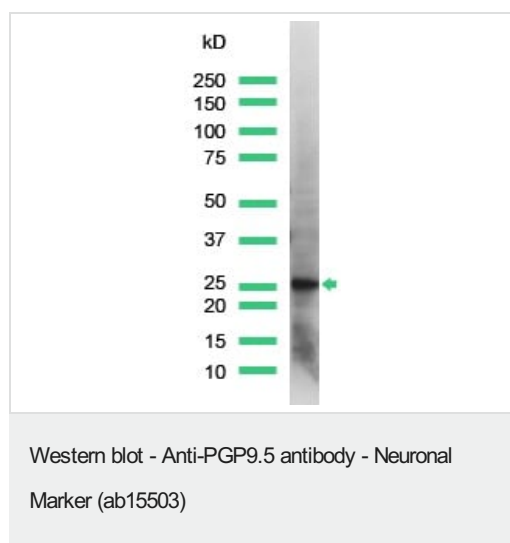
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGP9.5 antibody - Neuronal Marker (ab15503)

Formalin-fixed, paraffin-embedded human pancreas tissue stained for PGP9.5 using ab15503 at 1/200 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-PGP9.5 antibody - Neuronal Marker (ab15503)

ICC/IF image of ab15503 stained DU145. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab15503 at 1 ug/mL overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Anti-PGP9.5 antibody - Neuronal Marker (ab15503) at 1/25 dilution  
+ Human Brain lysate

**Predicted band size:** 25 kDa

**Observed band size:** 26 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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