abcam

Product datasheet

Anti-PGP9.5 antibody [rUCHL1/775] ab238074

Recombinant

5 Images

Overview

Product name	Anti-PGP9.5 antibody [rUCHL1/775]
Description	Mouse monoclonal [rUCHL1/775] to PGP9.5
Host species	Mouse
Tested applications	**Suitable for:** Protein Array, WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein corresponding to Human PGP9.5. Database link: **P09936**
Positive control	IHC-P: Human brain tissue. WB: Human brain tissue lysate.

Properties

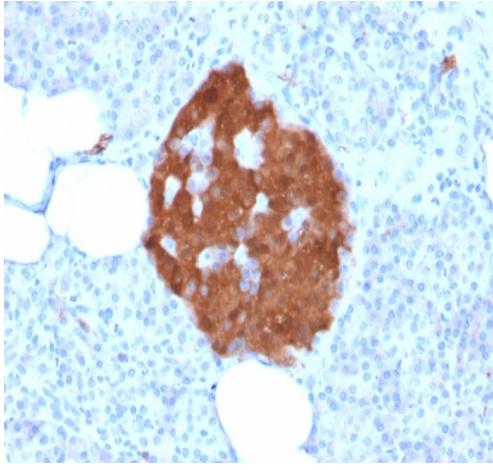|	
Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein A/G purified
Purification notes	Purified from bioreactor concentrate.
Clonality	Monoclonal
Clone number	rUCHL1/775
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab238074 in the following tested applications.

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

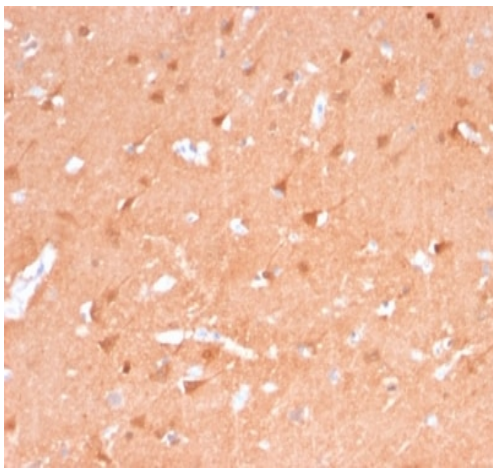| Application	Abreviews	Notes
Protein Array		Use at an assay dependent concentration.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 24 kDa.
IHC-P		1/1 - 1/2. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 mins followed by cooling at RT for 20 mins. Incubate with for 30 minutes at RT.

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

Formalin-fixed, paraffin-embedded human pancreas tissue stained for PGP9.5 with ab238074 at 2 µg/ml in immunohistochemical analysis.
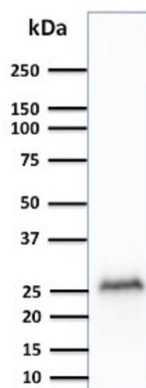
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGP9.5 antibody [rUCHL1/775] (ab238074)

Formalin-fixed, paraffin-embedded human brain tissue stained for PGP9.5 with ab238074 at 2 µg/ml in immunohistochemical analysis.

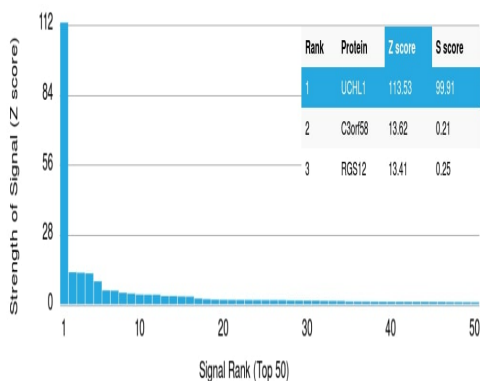Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGP9.5 antibody [rUCHL1/775] (ab238074)

Western blot - Anti-PGP9.5 antibody [rUCHL1/775] (ab238074)

Anti-PGP9.5 antibody [rUCHL1/775] (ab238074) at 2 µg/ml + Human brain tissue lysate

Predicted band size: 24 kDa

Rank	Protein	Z score	S score
1	UCHL1	113.53	99.91
2	C3orf58	13.62	0.21
3	RGS12	13.41	0.25

Protein Array - Anti-PGP9.5 antibody (ab238074)

ab238074 was tested in protein array against over 19000 different full-length human proteins.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target.

A MAb is specific to its intended target if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Why choose a
recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-PGP9.5 antibody [rUCHL1/775] (ab238074)

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

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