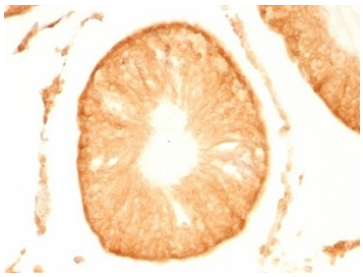
PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody [clone UCHL1/775] (V2920)

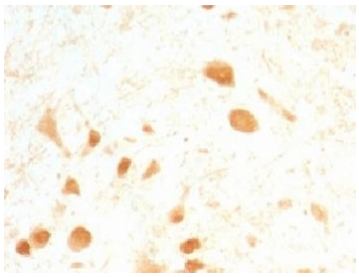
Catalog No.	Formulation	Size
V2920-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2920-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2920SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2920IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

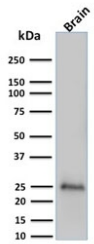
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	UCHL1/775
Purity	Protein G affinity chromatography
UniProt	P09936
Localization	Cytoplasmic, ER membrane
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This PGP 9.5 antibody is available for research use only.



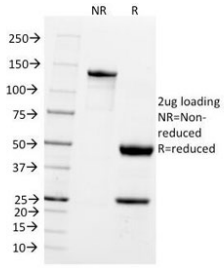
PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody. Immunohistochemistry analysis of PGP9.5 / UCHL1 in FFPE rat testis. IHC staining of formalin-fixed, paraffin-embedded rat testis using PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody shows strong HRP-DAB brown cytoplasmic staining within testicular cells, consistent with intracellular localization of the deubiquitinating enzyme UCHL1. The staining pattern highlights cellular regions associated with active protein turnover and ubiquitin pathway activity, with signal confined to cytoplasmic compartments and minimal background in surrounding structures. Clone UCHL1/775 supports visualization of ubiquitin pathway-associated protein distribution in tissue context.



PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody. Immunohistochemistry analysis of PGP9.5 / UCHL1 in FFPE rat cerebellum. Immunohistochemical staining of formalin-fixed, paraffin-embedded rat cerebellum using PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody demonstrates HRP-DAB brown cytoplasmic signal in neuronal cells, consistent with localization of the deubiquitinating enzyme UCHL1. The staining pattern reflects regions of active ubiquitin-mediated protein turnover, with cytoplasmic labeling observed in neuronal cell bodies and processes, while surrounding non-neuronal elements show reduced staining. Clone UCHL1/775 supports visualization of ubiquitin pathway-associated protein distribution within neural tissue.



PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody for WB. Western blot analysis of PGP9.5 / UCHL1 in human brain lysate. Lane 1: human brain lysate. A band is detected at approximately 25 kDa, consistent with the predicted molecular weight of Protein gene product 9.5 / UCHL1. The strong signal observed reflects abundant expression of this deubiquitinating enzyme in brain tissue, aligning with its central role in the ubiquitin pathway and regulation of intracellular protein turnover.



SDS-PAGE analysis of purified, BSA-free PGP 9.5 antibody (clone UCHL1/775) as confirmation of integrity and purity.

Description

Protein gene product 9.5 (PGP9.5), also known as Ubiquitin C-terminal hydrolase L1 (UCHL1), is a cytoplasmic deubiquitinating enzyme that plays a central role in the ubiquitin pathway and regulation of intracellular protein turnover. The PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody (clone UCHL1/775) is specifically suited for studies focused on ubiquitin-mediated protein regulation, enabling detection of UCHL1 in systems where deubiquitination and protein degradation pathways are under investigation.

PGP9.5 Antibody, also referred to as UCHL1 antibody or ubiquitin C-terminal hydrolase L1 antibody, is widely used in research examining the ubiquitin-proteasome system and the control of protein stability. UCHL1 functions as a deubiquitinating enzyme that hydrolyzes ubiquitin from protein substrates, maintaining free ubiquitin pools and regulating the fate of proteins targeted for degradation. This positions UCHL1 as a key regulator within the ubiquitin pathway, directly influencing protein turnover and intracellular signaling dynamics.

This mouse monoclonal PGP9.5 Antibody (clone UCHL1/775) supports detection of UCHL1 in experimental models focused on ubiquitin signaling and protein degradation mechanisms. The antibody enables clear visualization of

cytoplasmic UCHL1 expression, which reflects active involvement in deubiquitination and ubiquitin recycling processes. Its use supports studies aimed at understanding how disruption of the ubiquitin pathway impacts cellular homeostasis and regulatory protein turnover.

Alterations in deubiquitination and ubiquitin pathway activity are closely linked to disease mechanisms, including neurodegenerative disorders, cancer progression, and cellular stress responses. UCHL1 is therefore frequently studied in the context of ubiquitin-mediated regulation of protein quality control and degradation pathways. Detection of UCHL1 provides insight into how cells regulate protein stability through the balance of ubiquitination and deubiquitination.

A PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody (clone UCHL1/775) is ideally suited for research applications focused on ubiquitin signaling, deubiquitination, and protein turnover. Its positioning as a ubiquitin pathway-focused antibody clearly differentiates it from neuronal marker-oriented reagents and supports mechanistic investigation of protein degradation and intracellular regulatory pathways.

Application Notes

Optimal dilution of the PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as the immunogen for the PGP9.5 Antibody / Ubiquitin Hydrolase Pathway Antibody.

Storage

Store the PGP 9.5 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

UCHL1 antibody, PGP9.5 antibody, Ubiquitin C-terminal hydrolase L1 antibody, Deubiquitinating enzyme UCHL1 antibody

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