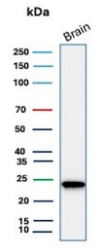
PGP9.5 Antibody / Neuronal Marker Western Blot Antibody [clone UCHL1/7076R] (V5033)

Catalog No.	Formulation	Size
V5033-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5033-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5033SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

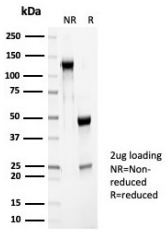
Recombinant RABBIT MONOCLONAL

Bulk quote request

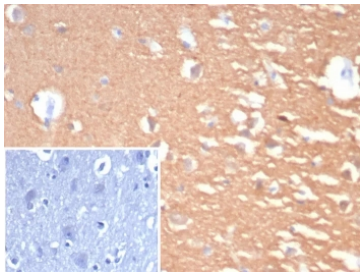
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	UCHL1/7076R
Purity	Protein A/G affinity
UniProt	P09936
Localization	Cytoplasm, ER membrane
Applications	Western blot: 2-4ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This PGP9.5 antibody is available for research use only.



PGP9.5 Antibody for WB. Western blot analysis in human brain lysate. Human brain tissue lysate stained with PGP9.5 Antibody for WB, also known as Neuronal Marker Western Blot Antibody and Ubiquitin C-terminal hydrolase L1 antibody, shows a strong band at approximately 25 kDa, consistent with the predicted molecular weight of PGP9.5 / UCHL1. The intense signal in brain tissue aligns with the well-established neuronal enrichment of this protein, supporting its use as a reliable marker for neuronal protein expression in western blot applications.



SDS-PAGE analysis of purified, BSA-free PGP9.5 antibody (clone UCHL1/7076R) as confirmation of integrity and purity.



IHC staining of FFPE human cerebellum tissue with PGP9.5 antibody (clone UCHL1/7076R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Protein gene product 9.5 (PGP9.5), also known as Ubiquitin C-terminal hydrolase L1 (UCHL1), is a neuronally enriched cytoplasmic protein that functions as a deubiquitinating enzyme involved in ubiquitin recycling and neuronal maintenance. The PGP9.5 Antibody - Neuronal Marker Western Blot Antibody is specifically optimized for western blot detection of neuronal proteins, enabling strong and reliable identification of UCHL1 in brain and nerve tissue lysates.

PGP9.5 Antibody - Neuronal Marker Western Blot Antibody, also referred to as UCHL1 antibody or ubiquitin C-terminal hydrolase L1 antibody, is widely used as a neuronal marker in WB applications due to its high and consistent expression in central and peripheral nervous system tissues. In western blot analysis, this antibody produces a strong, well-defined band at approximately 25 kDa, with markedly higher intensity in brain and nerve-derived samples, supporting its use as a robust indicator of neuronal enrichment.

This recombinant rabbit monoclonal PGP9.5 Antibody (clone UCHL1/7076R) provides high specificity and reproducible band detection in neuronal western blot workflows. Recombinant monoclonal design ensures defined epitope recognition and low background, which is critical for accurately detecting neuronal proteins in complex lysates. The antibody enables consistent visualization of UCHL1 across neural tissues, supporting comparative analysis of protein expression in different regions of the nervous system.

PGP9.5 is predominantly localized to the cytoplasm of neurons, where it plays a central role in maintaining protein homeostasis through deubiquitination. It is highly expressed in brain, spinal cord, and peripheral nerves, making it a well-established marker for neuronal identity and nerve fiber-associated protein expression. In western blot studies, the strong enrichment of PGP9.5 in neuronal lysates provides a clear distinction from non-neuronal tissues, reinforcing its utility as a neural-specific protein marker.

A recombinant rabbit monoclonal PGP9.5 Antibody - Neuronal Marker Western Blot Antibody is ideally suited for western blot applications focused on neuronal protein detection, brain tissue analysis, and nerve-related research. Its strong band intensity in neuronal samples and consistent performance in WB make it a powerful tool for neuroscience and protein expression studies involving neural tissues.

Application Notes

Optimal dilution of the PGP9.5 Antibody / Neuronal Marker Western Blot Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the PGP9.5 Antibody / Neuronal Marker Western Blot Antibody.

Storage

Aliquot the PGP9.5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

UCHL1 antibody, PGP9.5 protein antibody, Ubiquitin C-terminal hydrolase L1 antibody, Neuronal ubiquitin hydrolase antibody

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