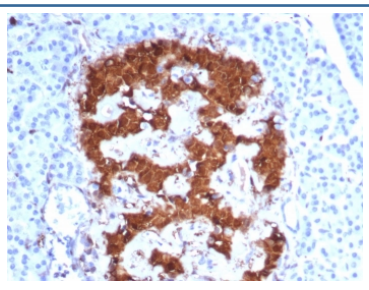
PGP9.5 Antibody / High Abundance Neuronal Marker Antibody [clone UCHL1/8152] (V5029)

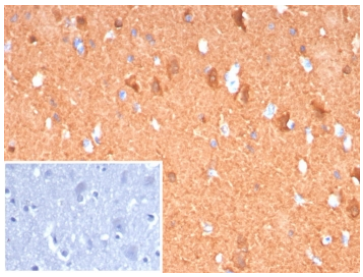
Catalog No.	Formulation	Size
V5029-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5029-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5029SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

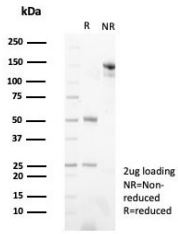
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	UCHL1/8152
Purity	Protein A/G affinity
UniProt	P09936
Localization	Cytoplasm, ER membrane
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This PGP9.5 antibody is available for research use only.



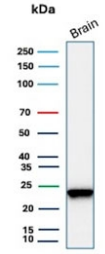
IHC staining of FFPE human pancreas tissue with PGP9.5 antibody (clone UCHL1/8152). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



PGP9.5 Antibody / High Abundance Neuronal Marker Antibody. Immunohistochemistry analysis of PGP9.5 / UCHL1 in FFPE human cerebellum tissue. IHC staining of FFPE human cerebellum using PGP9.5 Antibody / High Abundance Neuronal Marker Antibody demonstrates strong HRP-DAB brown cytoplasmic signal in neuronal cells, reflecting the high endogenous abundance of UCHL1 in neural tissue. The robust staining intensity enables clear identification of neuronal cell bodies and processes with high contrast relative to surrounding tissue, supporting reliable visualization even under standard staining conditions. Clone UCHL1/8152 produces consistent and easily interpretable signal, while the PBS control shows no staining, confirming specificity and low background.



SDS-PAGE analysis of purified, BSA-free PGP9.5 antibody (clone UCHL1/8152) as confirmation of integrity and purity.



PGP9.5 Antibody / High Abundance Neuronal Marker Antibody. Immunohistochemistry analysis of PGP9.5 / UCHL1 in FFPE human cerebellum tissue. IHC staining of FFPE human cerebellum using PGP9.5 Antibody / High Abundance Neuronal Marker Antibody demonstrates strong HRP-DAB brown cytoplasmic signal in neuronal cells, reflecting the high endogenous abundance of UCHL1 in neural tissue. The robust staining intensity enables clear identification of neuronal cell bodies and processes with high contrast relative to surrounding tissue, supporting reliable visualization even under standard staining conditions. Clone UCHL1/8152 produces consistent and easily interpretable signal, while the PBS control shows no staining, confirming specificity and low background.

Description

Protein gene product 9.5 (PGP9.5), also known as Ubiquitin C-terminal hydrolase L1 (UCHL1), is a cytoplasmic protein that is highly abundant in neurons and widely used as a robust neuronal marker due to its strong and consistent expression levels. The PGP9.5 Antibody / High Abundance Neuronal Marker Antibody (clone UCHL1/8152) is specifically suited for applications where high signal intensity and reliable detection are essential, enabling clear visualization of neuronal cells even in challenging experimental conditions.

PGP9.5 Antibody, also referred to as UCHL1 antibody or ubiquitin C-terminal hydrolase L1 antibody, is frequently selected because its high endogenous expression produces strong cytoplasmic signal across neuronal populations. This high abundance allows for confident detection of neuronal cell bodies and processes, providing clear contrast relative to surrounding tissue. In comparison to lower-abundance neuronal markers, PGP9.5 consistently delivers more robust and easily interpretable staining patterns, reducing the risk of weak or variable signal.

This mouse monoclonal PGP9.5 Antibody (clone UCHL1/8152) enables strong and reproducible labeling of neurons, supporting high-contrast visualization across a range of sample types. The robust signal intensity improves detection sensitivity and allows reliable identification of neuronal populations, even in samples with reduced antigen preservation or lower overall protein integrity. Its performance supports consistent results across experiments where signal strength is a key requirement.

PGP9.5 is expressed at high levels throughout the central and peripheral nervous systems, making it one of the most dependable markers for neuronal detection. Its abundance ensures that signal is readily detectable without requiring

highly optimized conditions, supporting efficient and reproducible analysis of neuronal populations. This characteristic is particularly valuable in studies where strong signal and clear visualization are prioritized.

A PGP9.5 Antibody / High Abundance Neuronal Marker Antibody (clone UCHL1/8152) is ideally suited for research applications requiring strong signal, high sensitivity detection, and reliable identification of neuronal cells. Its positioning as a high abundance neuronal marker clearly differentiates it from lower-expression targets and makes it a preferred choice for experiments where robust and consistent signal is critical.

Application Notes

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

Immunogen

A recombinant partial protein sequence (within amino acids 1-223) from the human protein was used as the immunogen for the PGP9.5 Antibody / High Abundance Neuronal Marker 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 antibody, Ubiquitin C-terminal hydrolase L1 antibody, High expression neuronal marker PGP9.5 antibody

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