PGP9.5 Antibody for IHC / UCHL1 Immunohistochemistry Antibody [clone MSVA-905R] (V6126)

Catalog No.	Formulation	Size
V6126-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6126-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MSVA-905R
UniProt	P09936
Localization	Cytoplasm, Endoplasmic reticulum membrane
Applications	Immunohistochemistry (FFPE) : 1:100-1:200
Limitations	This PGP9.5 / UCHL1 antibody is available for research use only.

PGP9.5 Antibody for IHC Tissue Microarray (TMA). Immunohistochemistry analysis of Ubiquitin C-terminal hydrolase L1 / UCHL1, also known as PGP9.5, in formalin-fixed paraffin-embedded human normal and cancer tissue microarrays using recombinant rabbit monoclonal PGP9.5 antibody. Tissue microarray (TMA) staining with HRP-DAB brown chromogen demonstrates cytoplasmic localization in neuronal cell populations, consistent with the established expression of UCHL1 in the nervous system. Variable cytoplasmic staining is observed across tumor tissue microarrays, reflecting differential expression in selected malignancies, while most non-neuronal normal tissues show minimal signal. Evaluation across large TMA panels enables direct comparison of UCHL1 expression across diverse tissue types under standardized conditions. The observed staining patterns align with reported UCHL1 expression profiles in publicly available datasets including the Human Protein Atlas.

Description

Protein gene product 9.5 (PGP9.5), also known as Ubiquitin C-terminal hydrolase L1 (UCHL1), is a cytoplasmic protein widely used as a neuronal marker in immunohistochemistry and increasingly evaluated in tumor tissues. The PGP9.5

Antibody for IHC / UCHL1 Immunohistochemistry Antibody (clone MSVA-905R) is specifically developed for FFPE tissue staining, enabling clear visualization of UCHL1 expression patterns, cellular localization, and tissue architecture in histological sections.

PGP9.5 Antibody for IHC, also referred to as UCHL1 antibody or ubiquitin C-terminal hydrolase L1 antibody, is optimized for chromogenic immunohistochemistry rather than western blot or fluorescence-based imaging. In FFPE tissues, UCHL1 demonstrates strong cytoplasmic staining in neuronal cells, with labeling of nerve fibers and processes that highlight tissue structure. This characteristic staining pattern supports identification of neural elements and provides clear morphological context within complex tissue environments.

This recombinant rabbit monoclonal PGP9.5 Antibody for IHC (clone MSVA-905R) has been extensively evaluated using tissue microarray (TMA) panels, enabling systematic analysis across a broad range of normal and cancer tissues under standardized staining conditions. TMA-based validation allows direct comparison of staining intensity, cellular localization, and distribution patterns across many tissue types, supporting high-confidence interpretation of UCHL1 expression in both normal and pathological contexts.

In tumor tissues, UCHL1 expression can vary depending on tumor type and differentiation state, with staining observed in specific cell populations and tissue compartments. TMA analysis enables side-by-side evaluation of these patterns across multiple tumor samples, providing insight into expression variability and supporting comparative tissue profiling. The ability to assess large numbers of samples simultaneously improves consistency and reduces variability in immunohistochemical interpretation.

The PGP9.5 Antibody for IHC / UCHL1 Immunohistochemistry Antibody (clone MSVA-905R) is ideally suited for FFPE tissue staining, tumor versus normal tissue comparison, and large-scale expression profiling using TMA panels. Its positioning as a TMA-validated immunohistochemistry antibody clearly differentiates it from non-IHC reagents and supports detailed analysis of UCHL1 localization in histological studies.

This antibody is also part of a broader collection of IHC antibodies validated by tissue microarray analysis, supporting consistent staining across normal and cancer tissues.

Application Notes

1. Optimal dilution of the PGP9.5 Antibody for IHC / UCHL1 Immunohistochemistry Antibody should be determined by the researcher.

2. This PGP9.5 / UCHL1 antibody is recombinantly produced by expression in CHO cells.

3. Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121oC in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37oC for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Immunogen

Recombinant full-length human UCHL1 protein was used as the immunogen for the PGP9.5 Antibody for IHC / UCHL1 Immunohistochemistry Antibody.

Storage

PGP9.5 / UCHL1 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

Alternate Names

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