# PGP9.5 Antibody / Cytoplasmic Localization Marker Antibody [clone UBCE-L1] (V7153)

| Catalog No. | Formulation | Size |
|---|---|---|
| V7153-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V7153-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V7153SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V7153IHC-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

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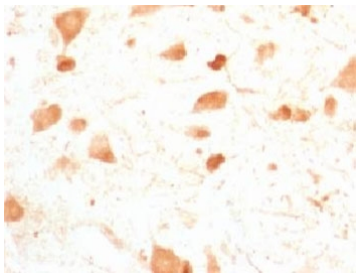
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | UBCE-L1 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P09936 |
| **Localization** | Cytoplasmic, ER membrane |
| **Applications** | Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT<br>Prediluted IHC Only Format : incubate for 30 min at RT (1) |
| **Limitations** | This PGP9.5 antibody is available for research use only. |



PGP9.5 Antibody / Cytoplasmic Localization Marker Antibody. Immunohistochemistry analysis of PGP9.5 / UCHL1 in FFPE rat cerebellum. IHC staining of FFPE rat cerebellum using PGP9.5 Antibody / Cytoplasmic Localization Marker Antibody demonstrates HRP-DAB brown signal localized predominantly to the cytoplasm of neuronal cells, consistent with intracellular distribution of UCHL1. The staining pattern highlights diffuse cytoplasmic compartments within neuronal cell bodies and processes, with minimal nuclear staining, enabling clear distinction of subcellular localization. Clone UBCE-L1 supports accurate visualization of cytoplasmic protein distribution and intracellular patterning within neural tissue.


Western blot testing of human brain lysate with PGP9.5 antibody (clone UBCE-L1). Predicted molecular weight ~25 kDa.

## Description

Protein gene product 9.5 (PGP9.5), also known as Ubiquitin C-terminal hydrolase L1 (UCHL1), is a predominantly cytoplasmic protein widely used for analysis of intracellular protein localization and subcellular distribution patterns. The PGP9.5 Antibody / Cytoplasmic Localization Marker Antibody (clone UBCE-L1) is specifically suited for defining cytoplasmic localization, enabling clear visualization of intracellular protein distribution within cells and tissues.

PGP9.5 Antibody, also referred to as UCHL1 antibody or ubiquitin C-terminal hydrolase L1 antibody, is frequently used in studies focused on subcellular localization where distinguishing cytoplasmic signal from nuclear or membrane-associated staining is essential. UCHL1 is strongly enriched in the cytoplasm, producing a diffuse yet well-defined intracellular staining pattern that allows researchers to clearly identify cytoplasmic compartments and assess protein distribution across the cell body and cellular processes.

This mouse monoclonal PGP9.5 Antibody (clone UBCE-L1) provides consistent and well-resolved cytoplasmic labeling, supporting interpretation of intracellular localization patterns across different cell types. The antibody highlights cytoplasmic compartments while maintaining minimal nuclear signal, enabling clear differentiation between subcellular regions and improving confidence in localization-based analysis. Its staining pattern is particularly useful for studies requiring accurate mapping of intracellular protein positioning.

UCHL1 localization within the cytoplasm reflects its role in intracellular protein regulation and ubiquitin-related processes. Its distribution provides a reliable reference for cytoplasmic compartmentalization and supports evaluation of how proteins are organized within the intracellular environment. Detection of UCHL1 therefore contributes to studies examining spatial organization and localization-dependent cellular functions.

A PGP9.5 Antibody / Cytoplasmic Localization Marker Antibody (clone UBCE-L1) is ideally suited for research applications focused on cytoplasmic localization, intracellular distribution, and subcellular pattern analysis. Its positioning as a cytoplasmic localization marker clearly differentiates it from nuclear and membrane-targeted antibodies and supports detailed investigation of intracellular protein organization.

## Application Notes

Optimal dilution of the PGP9.5 Antibody / Cytoplasmic Localization Marker Antibody should be determined by the researcher.

1. 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 / Cytoplasmic Localization Marker Antibody.

## Storage

Store the PGP9.5 Antibody / Cytoplasmic Localization Marker 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, Cytoplasmic marker UCHL1 antibody