

PGP 9.5 Rabbit pAb(UCHL-1)

CatalogNo: YN5493

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC

MW

- 25kD (Observed)

Isotype

- IgG

| Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Recommended Dilution Ratios

IHC 1:50-200

WB 1:500-2000

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Recombinant Protein derived from human PGP9.5. AA range:120-170

Specificity

This antibody detects endogenous levels of human PGP9.5

| Target Information

Gene name

UCHL1

Protein Name PGP9.5

Organism	Gene ID	UniProt ID
Human	7345;	P09936;
Mouse	22223;	Q9R0P9;
Rat	29545;	Q00981;

Cellular Localization Cytoplasm . Endoplasmic reticulum membrane ; Lipid-anchor . About 30% of total UCHL1 is associated with membranes in brain.

Tissue specificity Found in neuronal cell bodies and processes throughout the neocortex (at protein level) . Expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. Weakly expressed in ovary. Down-regulated in brains from Parkinson disease and Alzheimer disease patients.

Function Catalytic activity:Thiol-dependent hydrolysis of ester , thioester , amide , peptide and isopeptide bonds formed by the C-terminal Gly of ubiquitin (a 76-residue protein attached to proteins as an intracellular targeting signal) . ,Disease:Oxidation of Met-1 , Met-6 , Met-12 , Met-124 and Met-179 to methionine sulfoxide , and oxidation of Cys-220 to cysteine sulfonic acid have been observed in brains from Alzheimer disease (AD) and Parkinson disease (PD) patients. In AD , UCHL1 was found to be associated with neurofibrillary tangles. ,Function:Ubiquitin-protein hydrolase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. Also binds to free monoubiquitin and may prevent its degradation in lysosomes. The homodimer may have ATP-independent ubiquitin ligase activity. ,miscellaneous:In contrast to UCHL3 , does not hydrolyze a peptide bond at the C-terminal glycine of NEDD8. ,online information:Ubiquitin carboxy-terminal hydrolase L1 entry ,PTM:O-glycosylated. ,similarity:Belongs to the peptidase C12 family. ,subunit:Homodimer. Interacts with SNCA (By similarity) . Interacts with COPS5. ,tissue specificity:Found in neuronal cell bodies and processes throughout the neocortex (at protein level) . Expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. Weakly expressed in ovary. ,

| Validation Data

| Contact information

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