PGP 9.5 Rabbit pAb(UCHL-1)

CatalogNo: YN5493

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• WB,IHC

MW	Isotype
• 25kD (Observed)	• 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

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: http://www.immunoway.com.cn
Address: 2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information: **PGP 9.5 Rabbit pAb(UCHL-1)**