

PGP 9.5 (ABT-PGP9.5) IHC kit

CatalogNo: IHCM6209

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat,

Applications

- IHC

Isotype

- IgG1, Kappa

Recommended Dilution Ratios

Storage

Storage* 2°C to 8°C/1 year

Basic Information

Clonality Monoclonal

Clone Number ABT-PGP9.5

Immunogen Information

Immunogen Synthesized peptide derived from human PGP 9.5 AA range: 100-223

Specificity The antibody can specifically recognize human PGP 9.5 protein.

Target Information

Gene name UCHL1

Protein Name Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCH-L1) (Neuron cytoplasmic protein 9.5) (PGP 9.5) (PGP9.5) (Ubiquitin thioesterase L1)

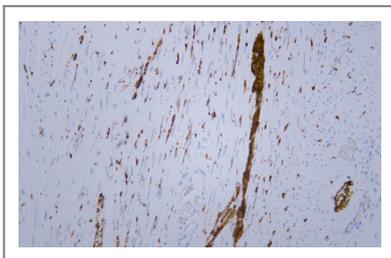
Organism	Gene ID	UniProt ID
Human	7345 ;	P09936 ;

Cellular Localization Cytoplasmic

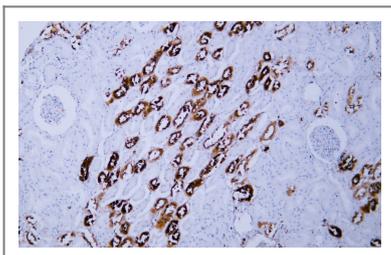
Tissue specificity Found in neuronal cell bodies and processes throughout the neocortex (at protein level). Expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. Weakly expressed in ovary. Down-regulated in brains from Parkinson disease and Alzheimer disease patients.

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



Human appendix tissue was stained with Anti-PGP 9.5 (ABT-PGP9.5) Antibody



Human kidney tissue was stained with Anti-PGP 9.5 (ABT-PGP9.5) Antibody

| Contact information

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**PGP 9.5 (ABT-
PGP9.5) IHC kit**

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