



PGP 9.5 (ABT251R) Rabbit mAb (Ready to Use)

Catalog No	YP-rAb-18263
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	IHC
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)
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of PGP9.5
Formulation	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source	Monoclonal, Rabbit,IgG
Dilution	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	2° C to 8° C/1 year,Ship by ice bag
Synonyms	Epididymis luminal protein 117 ; Epididymis secretory protein Li 53 ; HEL 117 ; HEL S 53 ; NDGOA ; Neuron cytoplasmic protein 9.5 ; OTTHUMP00000218137 ; OTTHUMP00000218139 ; OTTHUMP00000218140 ; OTTHUMP00000218141 ; Park 5 ; PARK5 ; PGP 9.5 ; PGP9.5 ; PGP95 ; Protein gene product 9.5 ; Ubiquitin C terminal esterase L1 ; Ubiquitin C terminal hydrolase ; Ubiquitin C terminal hydrolase L1 ; Ubiquitin carboxyl terminal esterase L1 ; Ubiquitin carboxyl terminal hydrolase isozyme L1 ; Ubiquitin carboxyl-terminal hydrolase isozyme L1 ; Ubiquitin thioesterase L1 ; Ubiquitin thiolesterase ; Ubiquitin thiolesterase L1 ; UCH-L1 ; UCHL1 ; UCHL1_HUMAN
Observed Band	
Calculated Molecular Weight	
Cell Pathway	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.

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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.

Background

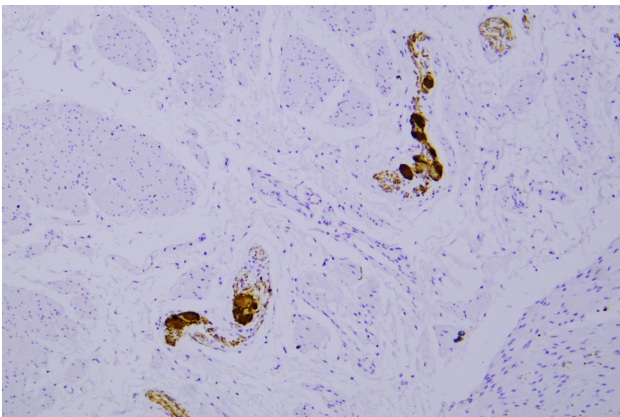
The protein encoded by this gene belongs to the peptidase C12 family. This enzyme is a thiol protease that hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. This gene is specifically expressed in the neurons and in cells of the diffuse neuroendocrine system. Mutations in this gene may be associated with Parkinson disease.[provided by RefSeq, Sep 2009],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Human stomach was stained with anti-PGP 9.5 (ABT251R) rabbit mAb

