SunLong Biotech Co.,LTD
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Mouse Anti-UCHL1/PGP9.5 antibody

SLM-51558M

Product Name	UCHL1/PGP9.5
Chinese Name	神经细胞胞浆蛋白 9.5/蛋白基因产物 9.5 单克隆抗体
Alias	Gracile axonal dystrophy; Neuron cytoplasmic protein 9.5; Park 5; Park5; Parkinson Disease 5; PGP 9.5; PGP95; Protein gene product 9.5; Ubiquitin C terminal esterase L1; Ubiquitin C terminal hydrolase (neuron specific); Ubiquitin C terminal hydrolase; 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; UCH-L1; UCHL1; UCHL1_HUMAN.
Research Area	Cell biology Neurobiology Cell type markers Ubiquitin
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	T2F5
React Species	Human(predicted:Mouse,Rat,Pig,Cow,Monkey,Xenopus)
Applications	WB=1:500-1000,IHC-P=1:20-50,IHC-F=1:400-800,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	25kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human UCHL1/PGP9.5: 151-223/223
Lsotype	IgG1
Purification	affinity purified by Protein G
Buffer Solution	Human(predicted:Mouse,Rat,Pig,Cow,Monkey,Xenopus)1M TBS(pH7.4) with 1% BSA, Human(predicted:Mouse,Rat,Pig,Cow,Monkey,Xenopus)3%

	Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	catalyzes the hydrolysis of ubiquitin carboxy-terminal thiolesters to form ubiquitin and a thiol; may play a role in neuropathic pain [RGD]. 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:** 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. **Subcellular Location:** Cytoplasm. Endoplasmic reticulum membrane. 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. **Post-translational modifications:** O-glycosylated. **DISEASE:** Defects in UCHL1 are the cause of Parkinson disease type 5 (PARK5) [MIM:613643]; also known as Parkinson disease autosomal dominant 5. PARK5 is a complex neurodegenerative disorder with manifestations ranging from typical Parkinson disease to dementia with Lewy bodies. Clinical features include parkinsonian symptoms (resting tremor, rigidity, postural instability and bradykinesia), dementia, diffuse Lewy body pathology, autonomic dysfunction, hallucinations and paranoia.

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Similarity:
Belongs to the peptidase C12 family.

SWISS:
P09936

Gene ID:
7345

Database links:

Entrez Gene: 7345 Human

Entrez Gene: 22223 Mouse

Entrez Gene: 396637 Pig

Entrez Gene: 29545 Rat

SwissProt: P09936 Human

SwissProt: Q9R0P9 Mouse

SwissProt: Q6SEG5 Pig

SwissProt: Q00981 Rat

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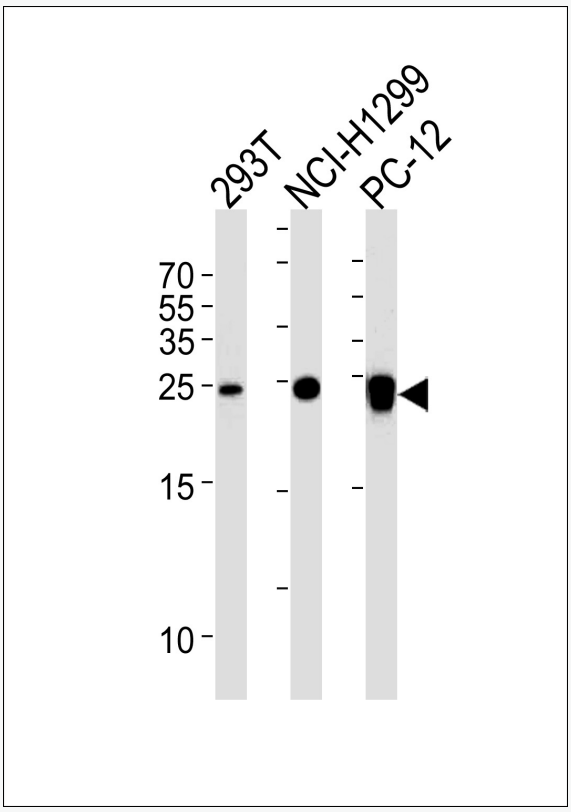
Product Picture



Sample:

Lane 1: 293T cell lysates

Lane 2: NCI-H1299 cell lysates

Lane 3: PC-12 cell lysates

Primary: Anti-UCHL1/PGP9.5 (SLM-51558M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 25 kD

Observed band size: 25 kD

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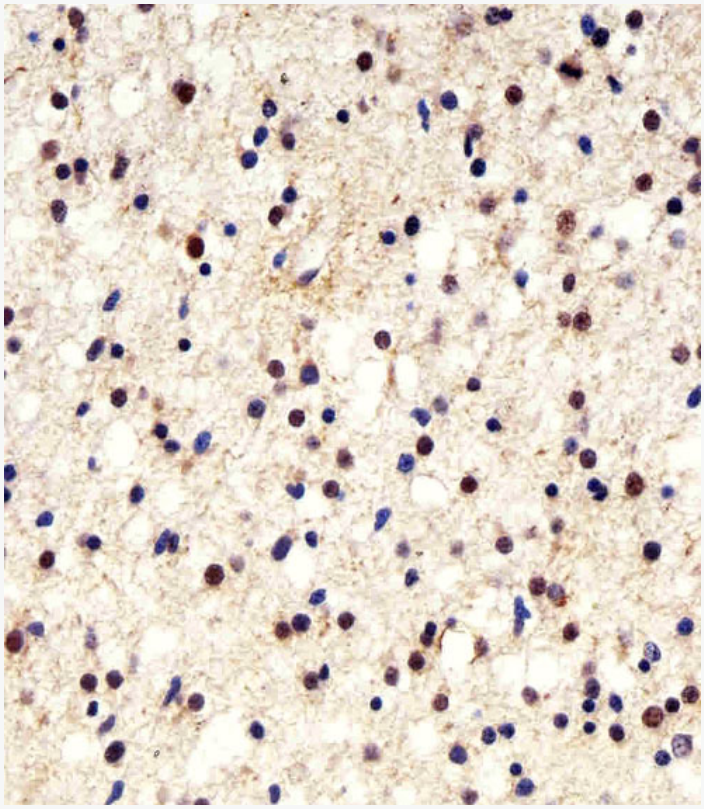

Paraformaldehyde-fixed, paraffin embedded (human astroglioma section); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with UCHL1/PGP9.5) Monoclonal Antibody, Unconjugated (SLM-51558M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

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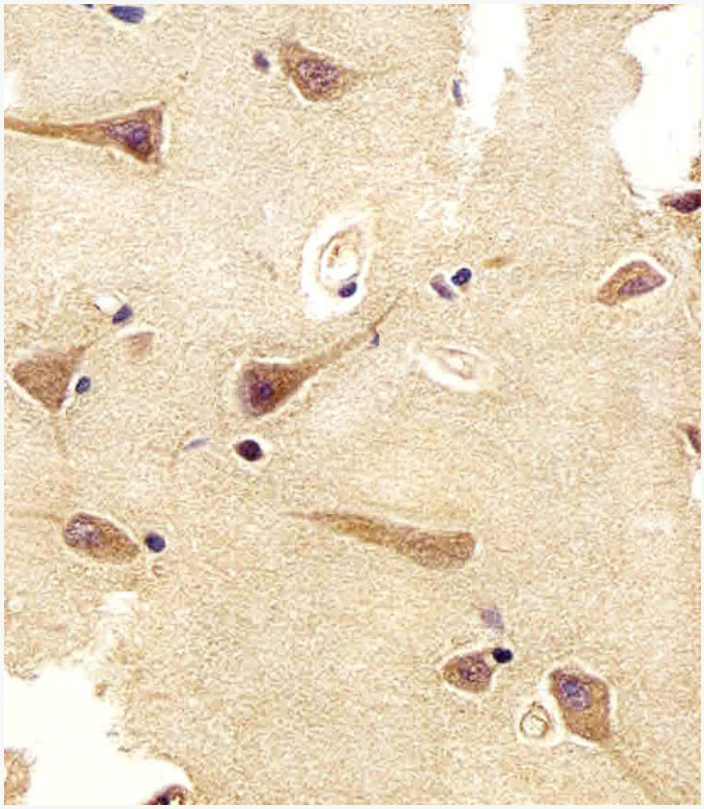

Paraformaldehyde-fixed, paraffin embedded (human brain section); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with UCHL1/PGP9.5) Monoclonal Antibody, Unconjugated (SLM-51558M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.