



## Rabbit Anti-UCHL1+3 antibody

SL11677R

<b>Product Name:</b>	UCHL1+3
<b>Chinese Name:</b>	Ubiquitin 硫酯酶 L1+3 抗体
<b>Alias:</b>	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.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	25kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human UCHL1+3:141-223/223
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**PubMed:**[PubMed](#)

The two ubiquitin C-terminal hydrolase (UCH) enzymes, UCHL1 and UCHL3, deubiquitinate ubiquitin-protein conjugates and control the cellular balance of ubiquitin. UCHL1 and UCHL3 are both small proteins of ~220 amino acids that share more than 40% amino acid sequence identity. UCHL3 is universally expressed in all tissues, while UCHL1 is expressed exclusively in neuronal tissue, testis and ovary. The activity of UCHL3 is more than 200 fold higher than UCHL1 when a fluorogenic ubiquitin substrate is used. UCHL1 associates with monoubiquitin and UCHL3 binds to Nedd8, ubiquitin-like protein. UCHL1 and UCHL3 play a role in the regulation of neuronal development and spermatogenesis. UCHL1 is involved in the pathogenesis of Parkinson's disease (PD) and Alzheimer's disease (AD).

**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.

**Subunit:**

Monomer. Homodimer. Interacts with SNCA (By similarity). Interacts with COPS5.

**Subcellular Location:**

Cytoplasm. Endoplasmic reticulum membrane; Lipid-anchor. Note=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.

**Similarity:**

Belongs to the peptidase C12 family.

**Product Detail:**

**SWISS:**  
P09936

**Gene ID:**  
7345

**Database links:**

[Entrez Gene: 7345](#)Human

[Entrez Gene: 22223](#)Mouse

[Entrez Gene: 396637](#)Pig

[Entrez Gene: 29545](#)Rat

[Entrez Gene: 101117250](#)Sheep

[Omim: 191342](#)Human

[SwissProt: P09936](#)Human

[SwissProt: Q9R0P9](#)Mouse

[SwissProt: Q6SEG5](#)Pig

[SwissProt: Q00981](#)Rat

[Unigene: 518731](#)Human

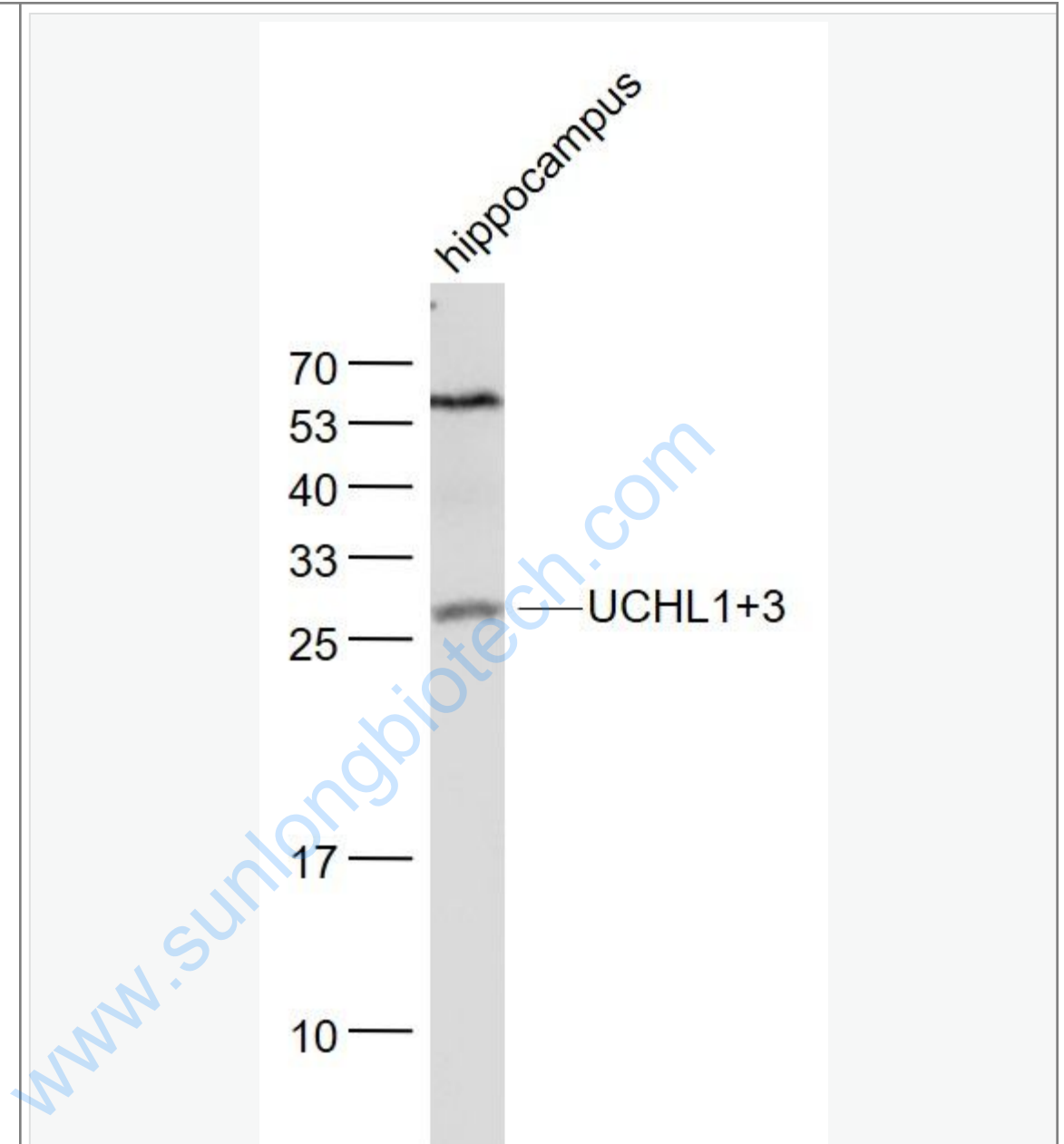
[Unigene: 29807](#)Mouse

[Unigene: 107213](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Hippocampus (Mouse) Lysate at 40 ug

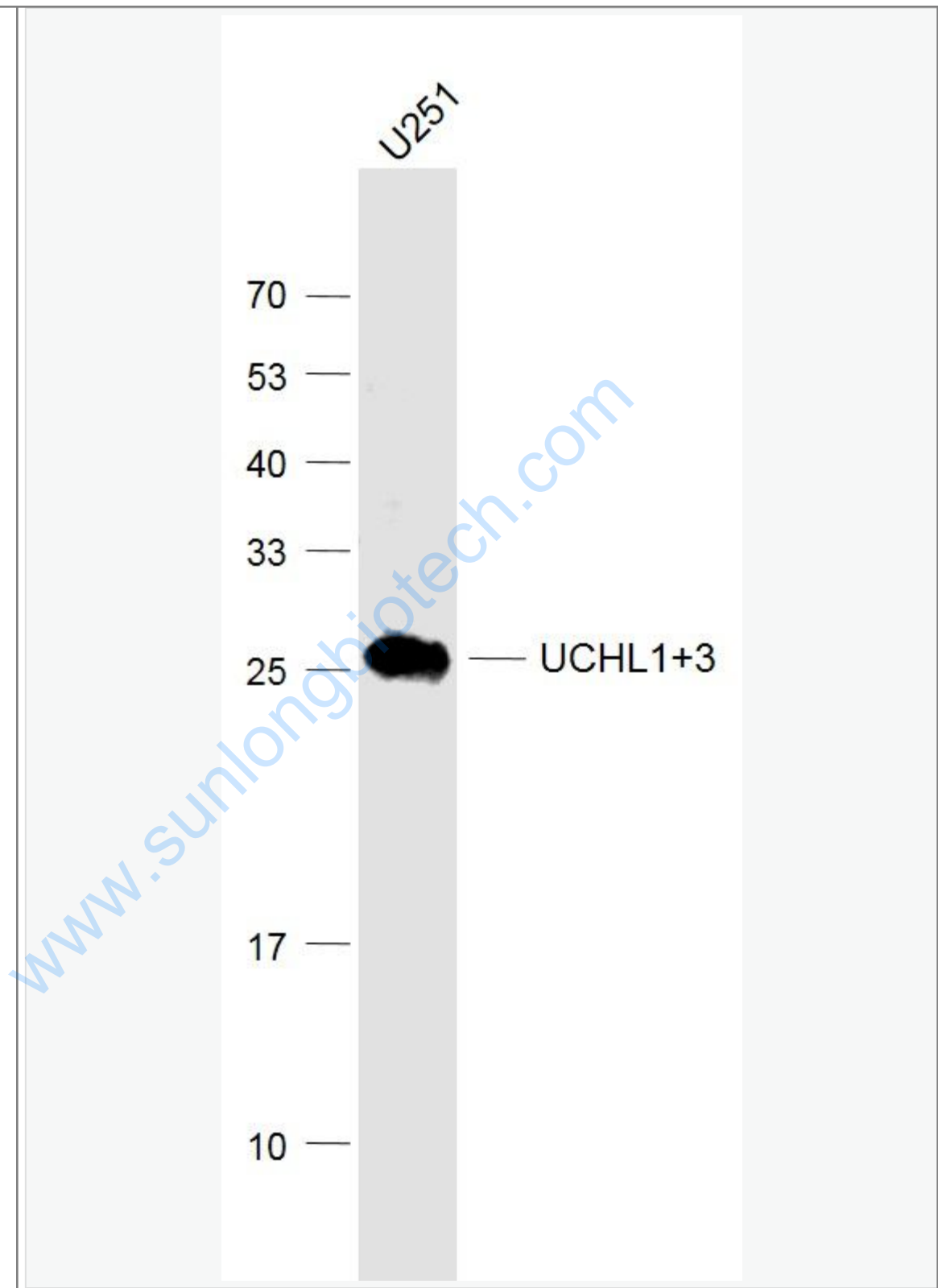
Primary: Anti- UCHL1+3 (SL11677R) at 1/1000 dilution

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

Predicted band size: 25 kD

	Observed band size: 26 kD
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Sample:

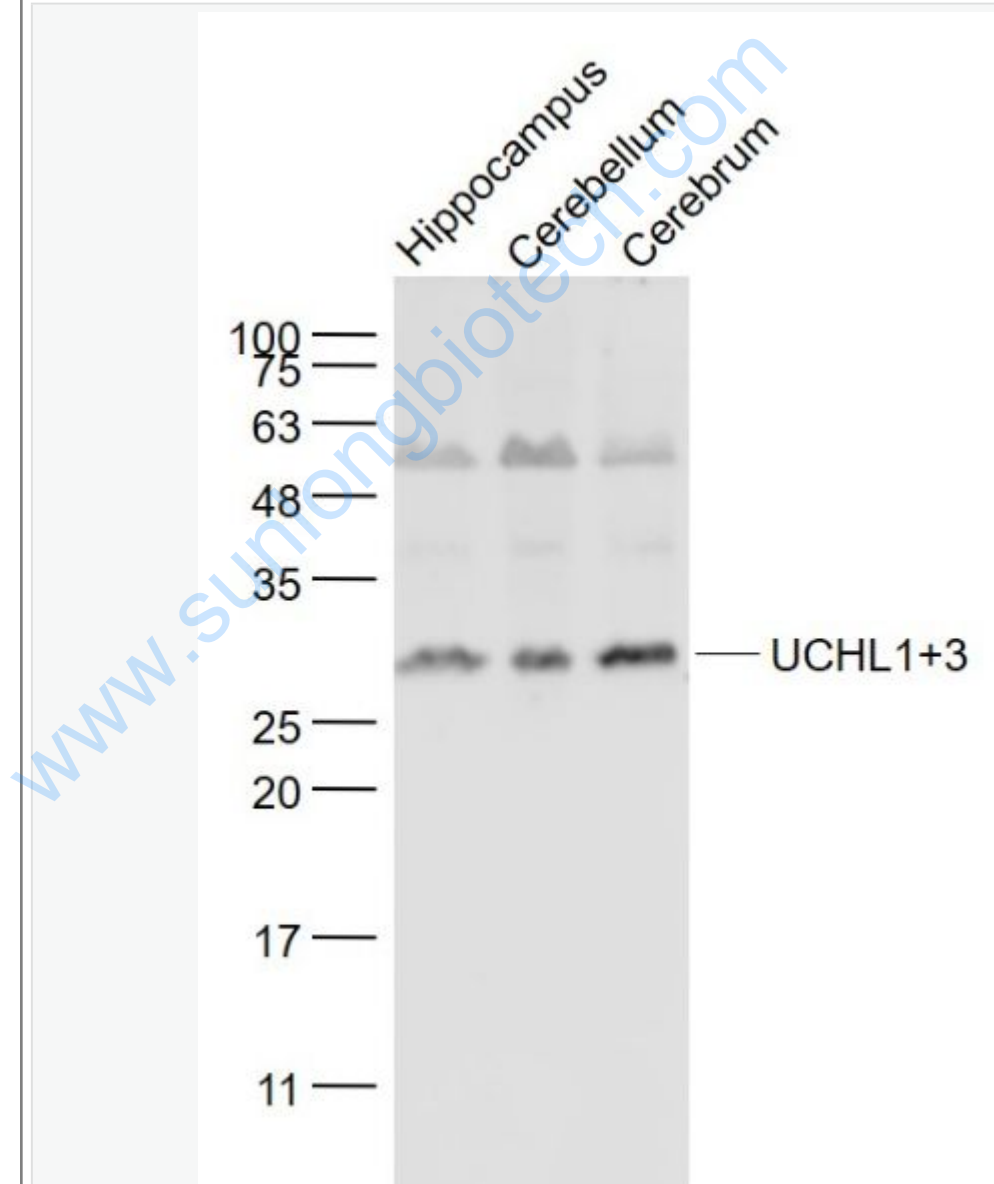
U251(Human) Cell Lysate at 30 ug

Primary: Anti-UCHL1+3 (SL11677R) at 1/1000 dilution

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

Predicted band size: 25 kD

Observed band size: 25 kD



Sample:

Hippocampus (Mouse) Lysate at 40 ug

Cerebellum (Mouse) Lysate at 40 ug

Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti- UCHL1+3 (SL11677R) at 1/1000 dilution

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

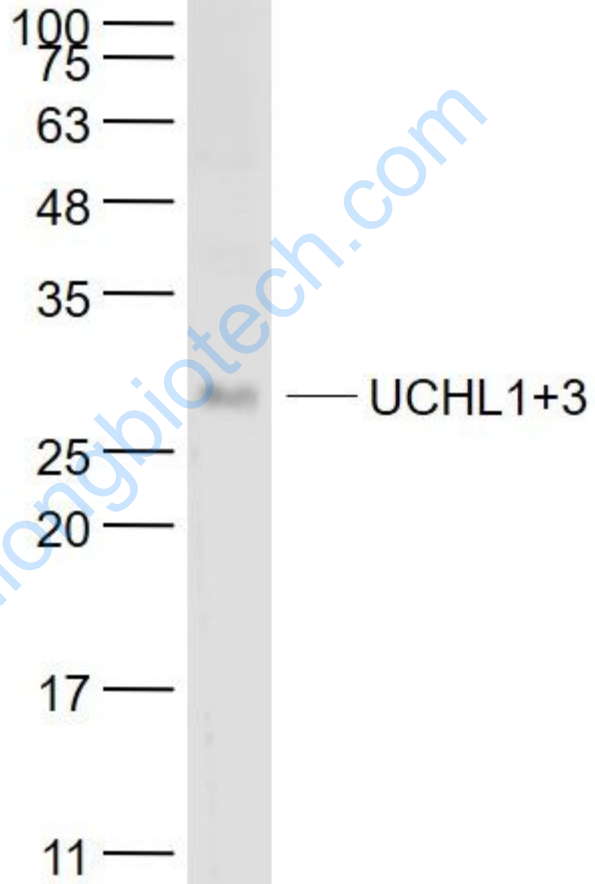
Predicted band size: 25 kD

Observed band size: 27 kD

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Cerebral cortex



Sample:

Cerebral cortex (Mouse) Lysate at 40 ug

Primary: Anti- UCHL1+3 (SL11677R) at 1/1000 dilution

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

	<p>Predicted band size: 25 kD</p>
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	<p>Observed band size: 27 kD</p>
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