

Product Name: KD-Validated UCHL1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01755**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 24.8kDa

Antigen Information

Gene Name	UCHL1 UCHL1; Ubiquitin C-Terminal Hydrolase L1; PGP9.5; UCHL-1; Ubiquitin Carboxyl-Terminal Esterase L1 (Ubiquitin Thiolesterase); Ubiquitin Carboxyl-Terminal Hydrolase Isozyme L1;
Alternative Names	Neuron Cytoplasmic Protein 9.5; Ubiquitin Thioesterase L1; Ubiquitin Thiolesterase; PGP 9.5; Uch-L1; UCH-L1; PARK5; Epididymis Secretory Protein Li 53; Epididymis Luminal Protein 117; EC 3.4.19.12; HEL-S-53; HEL-117; SPG79A; NDGOA; PGP95; SPG79
Gene ID	7345.0
SwissProt ID	P09936
Immunogen	A synthesized peptide derived from human PGP9.5

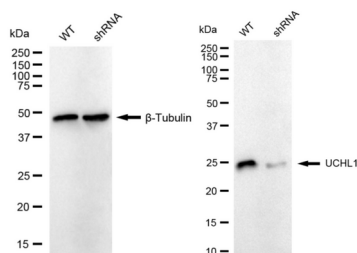
Background

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]

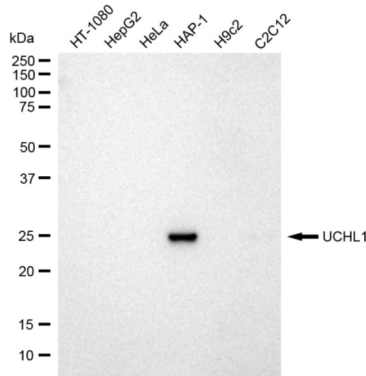
Research Area

Neuroscience, Cell Biology, Epigenetics and Nuclear Signaling

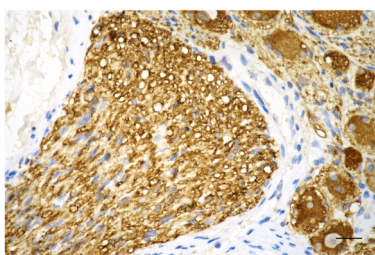
Image Data



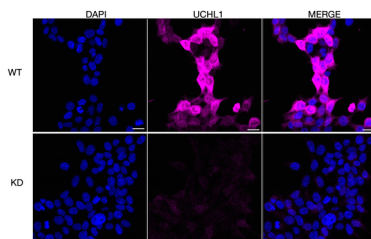
Western blotting analysis using UCHL1 antibody (KVA01755). UCHL1 expression in wild type (WT) and UCHL1 shRNA knockdown (KD) HSHC cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with UCHL1 antibody (KVA01755, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



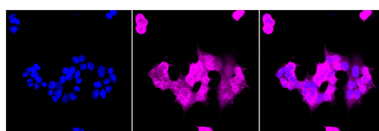
Western blotting analysis using UCHL1 antibody (KVA01755). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with UCHL1 antibody (KVA01755, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. UCHL1, ubiquitin C-terminal hydrolase L1.



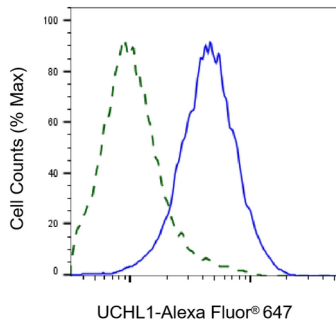
Immunohistochemistry was performed on paraffin-embedded human prostatic adenocarcinoma using UCHL1 antibody (KVA01755, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



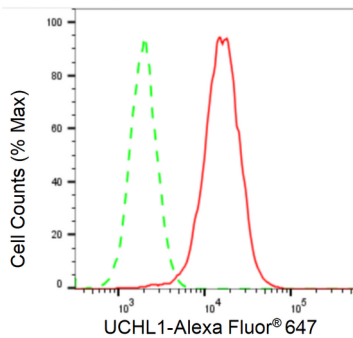
Immunocytochemical staining of HeLa cells using UCHL1 antibody (KVA01755, 1:1,000). Top panel: wild-type (WT); Bottom panel: UCHL1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; UCHL1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HAP-1 cells with UCHL1 antibody (KVA01755, 1:1,000). Nuclei were stained blue with DAPI; UCHL1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of UCHL1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with UCHL1 antibody (KVA01755, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of UCHL1 expression in HAP-1 cells using UCHL1 antibody (KVA01755, 1:2,000). Green, isotype control; red, UCHL1.