
Product Name: KD-Validated Ubiquitin Specific Peptidase 5 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00854**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
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
Molecular Weight	Calculated MW: 95.8kDa

Antigen Information

Gene Name	USP5
Alternative Names	USP5; Ubiquitin Specific Peptidase 5; Isopeptidase T; IsoT; Ubiquitin-Specific-Processing Protease 5; Ubiquitin Carboxyl-Terminal Hydrolase 5; Deubiquitinating Enzyme 5; Ubiquitin Thioesterase 5; Ubiquitin-Specific Protease-5 (Ubiquitin Isopeptidase T); Ubiquitin Specific Peptidase 5 (Isopeptidase T); Ubiquitin Specific Protease 5 (Isopeptidase T); Testicular Tissue Protein Li 218; Ubiquitin Thiolesterase 5; Ubiquitin Isopeptidase T; EC 3.4.19.12; EC 3.1.2.15; ISOT
Gene ID	8078.0
SwissProt ID	P45974
Immunogen	A synthesized peptide derived from human USP5

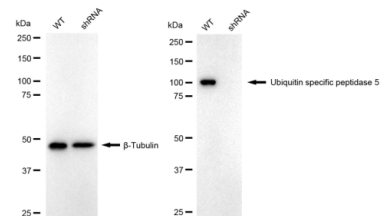
Background

Ubiquitin (see MIM 191339)-dependent proteolysis is a complex pathway of protein metabolism implicated in such diverse cellular functions as maintenance of chromatin structure, receptor function, and degradation of abnormal proteins. A late step of the process involves disassembly of the polyubiquitin chains on degraded proteins into ubiquitin monomers. USP5 disassembles branched polyubiquitin chains by a sequential exo mechanism, starting at the proximal end of the chain (Wilkinson et al., 1995 [PubMed 7578059]).[supplied by OMIM, Mar 2010]

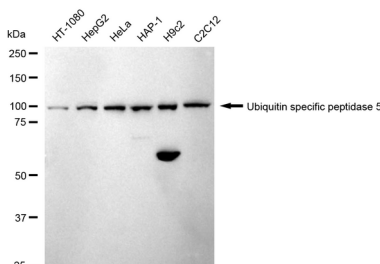
Research Area

Cell Biology, Epigenetics and Nuclear Signaling

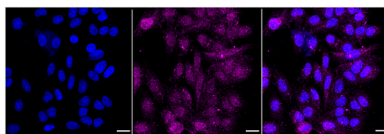
Image Data



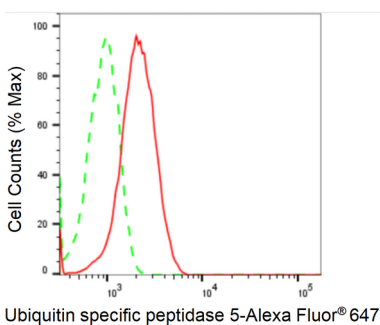
Western blotting analysis using Ubiquitin specific peptidase 5 antibody (KVA00854). Ubiquitin specific peptidase 5 expression in wild type (WT) and Ubiquitin specific peptidase 5 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Ubiquitin specific peptidase 5 antibody (KVA00854, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Ubiquitin specific peptidase 5 antibody (KVA00854). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Ubiquitin specific peptidase 5 antibody (KVA00854, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Ubiquitin specific peptidase 5 antibody (KVA00854, 1:1,000). Nuclei were stained blue with DAPI; Ubiquitin specific peptidase 5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Ubiquitin specific peptidase 5 expression in HepG2 cells using Ubiquitin specific peptidase 5 antibody (KVA00854, 1:2,000). Green, isotype control; red, Ubiquitin specific peptidase 5.