Product Name: KD-Validated Ubiquitin Specific Peptidase 14 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00890
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: 56.1kDa

Antigen Information

Gene Name	USP14
Alternative Names	USP14; Ubiquitin Specific Peptidase 14; TGT; Ubp6; Ubiquitin Specific Peptidase 14 (TRNA-Guanine Transglycosylase); Ubiquitin Specific Protease 14 (TRNA-Guanine Transglycosylase); Ubiquitin Carboxyl-Terminal Hydrolase 14; Deubiquitinating Enzyme 14; Ubiquitin Thioesterase 14; TRNA-Guanine Transglycosylase, 60-KD Subunit; Ubiquitin-Specific Processing Protease 14; Ubiquitin-Specific-Processing Protease 14; Ubiquitin Thiolesterase 14; EC 3.4.19.12; EC 3.1.2.15
Gene ID	9097.0
SwissProt ID	P54578
Immunogen	A synthesized peptide derived from human USP14

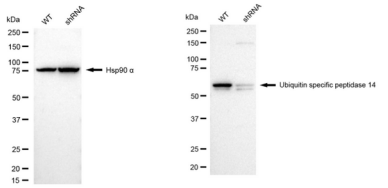
Background

This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitinylated proteins. Mice with a mutation that results in reduced expression of the ortholog of this protein are retarded for growth, develop severe tremors by 2 to 3 weeks of age followed by hindlimb paralysis and death by 6 to 10 weeks of age. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

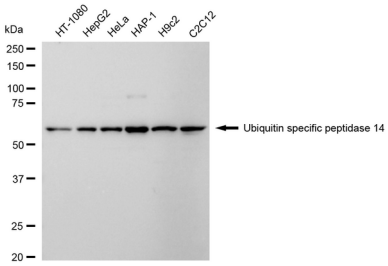
Research Area

Cell Biology,Epigenetics and Nuclear Signaling,Neuroscience

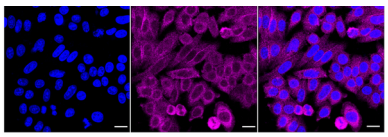
Image Data



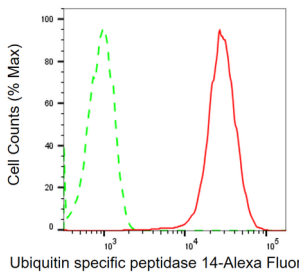
Western blotting analysis using Ubiquitin specific peptidase 14 antibody (KVAb00890). Ubiquitin specific peptidase 14 expression in wild type (WT) and Ubiquitin specific peptidase 14 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Ubiquitin specific peptidase 14 antibody (KVAb00890, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ubiquitin specific peptidase 14 antibody (KVAb00890). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ubiquitin specific peptidase 14 antibody (KVAb00890, 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 14 antibody (KVAb00890, 1:1,000). Nuclei were stained blue with DAPI; Ubiquitin specific peptidase 14 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 14 expression in HepG2 cells using Ubiquitin specific peptidase 14 antibody (KVAb00890, 1:2,000). Green, isotype control; red, Ubiquitin specific peptidase 14.