

Product Name: KD-Validated OTUB1 Mouse Monoclonal Antibody**Catalog #: KVA00657**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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: 31.3kDa

Antigen Information

Gene Name	OTUB1 OTUB1; OTU Deubiquitinase, Ubiquitin Aldehyde Binding 1; OTU Domain-Containing Ubiquitin Aldehyde-Binding Protein 1; Ubiquitin-Specific-Processing Protease OTUB1; OTU
Alternative Names	Domain, Ubiquitin Aldehyde Binding 1; Deubiquitinating Enzyme OTUB1; Ubiquitin Thioesterase OTUB1; Otubain-1; FLJ20113; FLJ40710; OTB1; OTU1; Ubiquitin-Specific Protease Otubain 1; OTU-Domain Ubal-Binding 1; EC 3.4.19.12; EC 3.1.2; HSPC263; HOTU1
Gene ID	55611.0
SwissProt ID	Q96FW1
Immunogen	Recombinant protein of human OTUB1

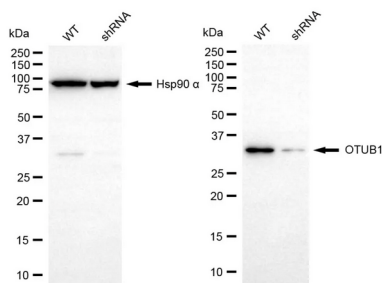
Background

The product of this gene is a member of the OTU (ovarian tumor) superfamily of predicted cysteine proteases. The encoded protein is a highly specific ubiquitin iso-peptidase, and cleaves ubiquitin from branched poly-ubiquitin chains but not from ubiquitinated substrates. It interacts with another ubiquitin protease and an E3 ubiquitin ligase that inhibits cytokine gene transcription in the immune system. It is proposed to function in specific ubiquitin-dependent pathways, possibly by providing an editing function for polyubiquitin chain growth. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

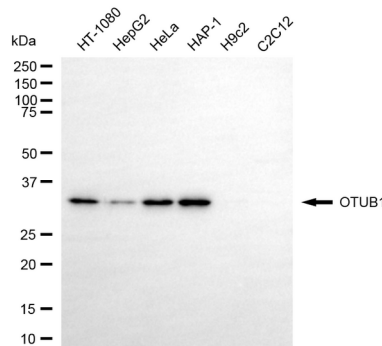
Research Area

Epigenetics and Nuclear Signaling, Cell Biology

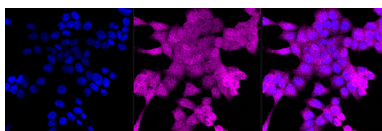
Image Data



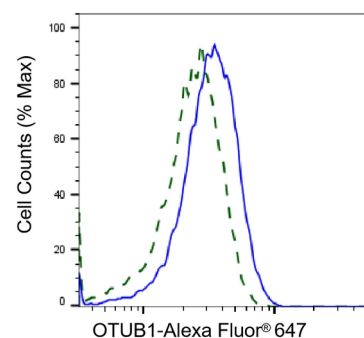
Western blotting analysis using OTUB1 antibody (KVA00657). OTUB1 expression in wild type (WT) and OTUB1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with OTUB1 antibody (KVA00657, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



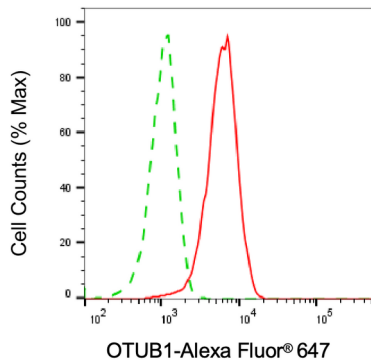
Western blotting analysis using OTUB1 antibody (KVA00657). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with OTUB1 antibody (KVA00657, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with OTUB1 antibody (KVA00657, 1:1,000). Nuclei were stained blue with DAPI; OTUB1 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.



Validation of OTUB1 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with OTUB1 antibody (KVA00657, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of OTUB1 expression in HAP-1 cells using OTUB1 antibody (KVA00657, 1:2,000). Green, isotype control; red, OTUB1.