

**Product Name: KD-Validated OTUB1 Mouse Monoclonal Antibody****Catalog #: KVA00658**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Mouse                                                                       |
| <b>Application</b>  | WB,FCM                                                                      |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Mouse IgG2b                                                                 |
| <b>Clonality</b>    | Mouse mAb                                                                   |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                      |
|-------------------------|--------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000 |
| <b>Molecular Weight</b> | Calculated MW: 31.3kDa               |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | OTUB1<br>OTUB1; OTU Deubiquitinase, Ubiquitin Aldehyde Binding 1; OTU Domain-Containing Ubiquitin Aldehyde-Binding Protein 1; Ubiquitin-Specific-Processing Protease OTUB1; OTU                                                                        |
| <b>Alternative Names</b> | 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 |
| <b>Gene ID</b>           | 55611.0                                                                                                                                                                                                                                                |
| <b>SwissProt ID</b>      | Q96FW1                                                                                                                                                                                                                                                 |
| <b>Immunogen</b>         | Recombinant protein of human OTUB1                                                                                                                                                                                                                     |

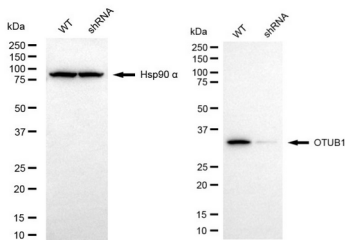
**Background**

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]

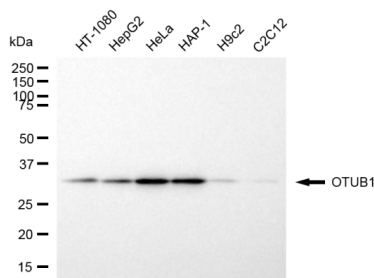
## Research Area

Epigenetics and Nuclear Signaling, Cell Biology

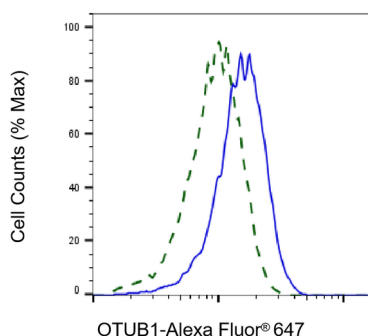
## Image Data



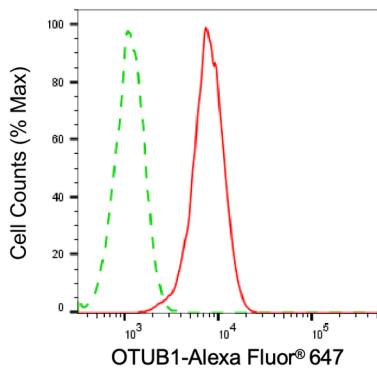
Western blotting analysis using OTUB1 antibody (KVA00658). OTUB1 expression in wild type (WT) and OTUB1 shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with OTUB1 antibody (KVA00658, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using OTUB1 antibody (KVA00658). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with OTUB1 antibody (KVA00658, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of OTUB1 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with OTUB1 antibody (KVA00658, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of OTUB1 expression in HeLa cells using OTUB1 antibody (KVA00658, 1:2,000). Green, isotype control; red, OTUB1.