

**Product Name: KD-Validated UBE2L3 Recombinant Rabbit Monoclonal Antibody**  
**Catalog #: KVA00842**

For research use only.

## Summary

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC,IHC-P                                                            |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit 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; ICC 1:100-1:1,000; IHC-P 1:100-1:200 |
| <b>Molecular Weight</b> | Calculated MW: 17.9kDa                                                     |

## Antigen Information

|                          |                                                                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | UBE2L3<br>UBE2L3; Ubiquitin Conjugating Enzyme E2 L3; UBCH7; Ubiquitin-Conjugating Enzyme E2 L3; E2 Ubiquitin-Conjugating Enzyme L3; Ubiquitin-Conjugating Enzyme E2-F1; Ubiquitin                                       |
| <b>Alternative Names</b> | Carrier Protein L3; Ubiquitin-Protein Ligase L3; L-UBC; Ubiquitin-Conjugating Enzyme E2L 3; Ubiquitin Conjugating Enzyme E2L 3; Ubiquitin-Conjugating Enzyme UBCH7; EC 2.3.2.23; EC 6.3.2.19; E2-F1; UbcM4; UBCE7; Ubch7 |
| <b>Gene ID</b>           | 7332.0                                                                                                                                                                                                                   |
| <b>SwissProt ID</b>      | P68036                                                                                                                                                                                                                   |
| <b>Immunogen</b>         | A synthesized peptide derived from human UBE2L3                                                                                                                                                                          |

## Background

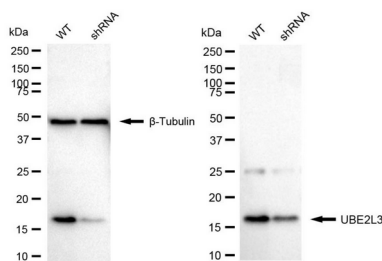
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The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes (E1s), ubiquitin-conjugating enzymes (E2s) and ubiquitin-protein ligases (E3s). This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is demonstrated to participate in the ubiquitination of p53, c-Fos, and the NF- $\kappa$ B precursor p105 in vitro. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2009]

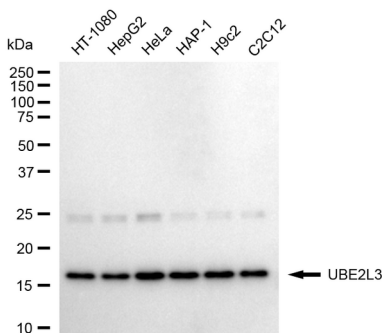
## Research Area

Epigenetics and Nuclear Signaling, Cell Biology

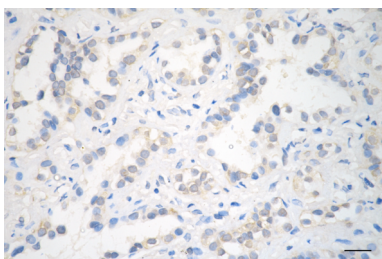
## Image Data



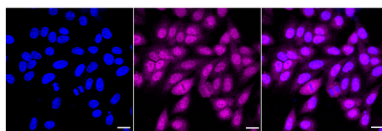
Western blotting analysis using UBE2L3 antibody (KVA00842). UBE2L3 expression in wild-type (WT) and UBE2L3 shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with UBE2L3 antibody (KVA00842, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



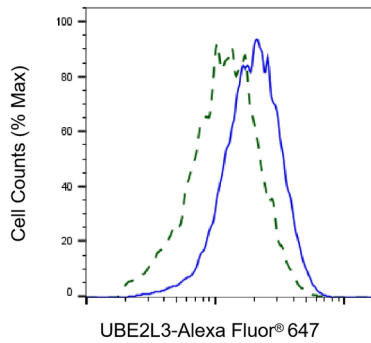
Western blotting analysis using UBE2L3 antibody (KVA00842). Total cell lysates (5  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with UBE2L3 antibody (KVA00842, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



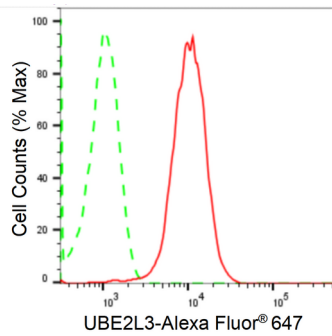
Immunohistochemistry was performed on paraffin-embedded human lung adenocarcinoma using UBE2L3 antibody (KVA00842, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 $\times$  objective). Scale bar: 25  $\mu$ m.



Immunocytochemical staining of HepG2 cells with UBE2L3 antibody (KVA00842, 1:1,000). Nuclei were stained blue with DAPI; UBE2L3 was stained magenta with Alexa Fluor<sup>®</sup> 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20  $\mu$ m.



Validation of UBE2L3 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with UBE2L3 antibody (KVA00842, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of UBE2L3 expression in HepG2 cells using UBE2L3 antibody (KVA00842, 1:2,000). Green, isotype control; red, UBE2L3.