

Product Name: KD-Validated Ubiquitination Factor E4B Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00885

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 146.2kDa

Antigen Information

Gene Name	UBE4B
Alternative Names	UBE4B; Ubiquitination Factor E4B; UFD2; KIAA0684; UBOX3; E4; Ubiquitination Factor E4B (UFD2 Homolog, Yeast); RING-Type E3 Ubiquitin Transferase E4 B; Ubiquitin Conjugation Factor E4 B; HDNB1; Ubiquitination Factor E4B (Homologous To Yeast UFD2); Homozygously Deleted In Neuroblastoma-1; Homozygously Deleted In Neuroblastoma 1; Ubiquitin-Fusion Degradation Protein 2; Ubiquitin Fusion Degradation Protein 2; Homologous To Yeast UFD2; EC 2.3.2.27; UFD2A
Gene ID	10277.0
SwissProt ID	O95155
Immunogen	A synthesized peptide derived from human UBE4B

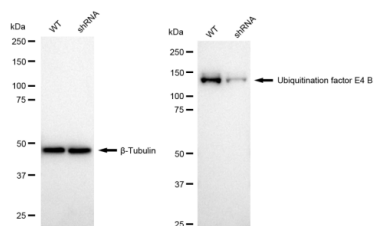
Background

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, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes an additional conjugation factor, E4, which is involved in multiubiquitin chain assembly. This gene is also the strongest candidate in the neuroblastoma tumor suppressor genes. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

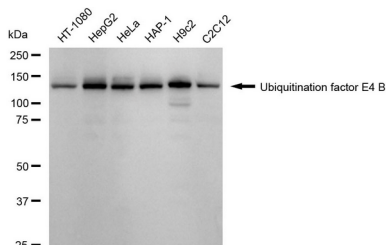
Research Area

Epigenetics and Nuclear Signaling

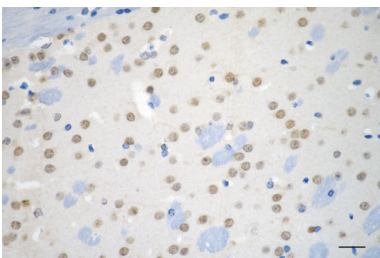
Image Data



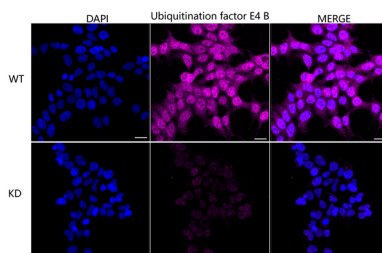
Western blotting analysis using Ubiquitination factor E4 B antibody (KVA00885). Ubiquitination factor E4 B expression in wild type (WT) and Ubiquitination factor E4 B shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Ubiquitination factor E4 B antibody (KVA00885, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



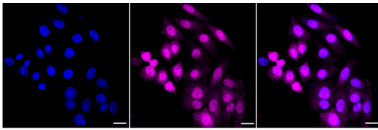
Western blotting analysis using Ubiquitination factor E4 B antibody (KVA00885). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Ubiquitination factor E4 B antibody (KVA00885, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



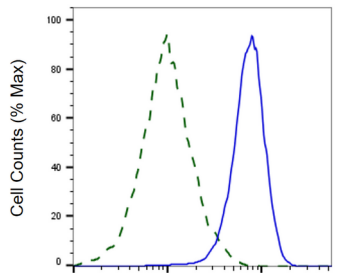
Immunohistochemistry was performed on paraffin-embedded mouse brain using ubiquitination factor E4 B antibody (KVA00885, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using Ubiquitination factor E4 B antibody (KVA00885, 1:1,000), Top panel: wild-type (WT); Bottom panel: Ubiquitination factor E4 B shRNA knockdown (KD). Nuclei were stained blue with DAPI; Ubiquitination factor E4 B was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.

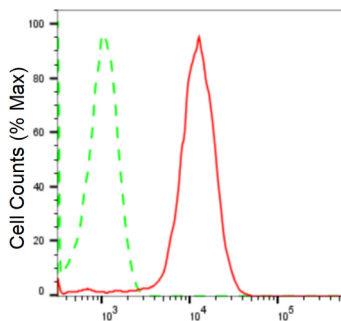


Immunocytochemical staining of HepG2 cells with Ubiquitination factor E4 B antibody (KVA00885, 1:1,000). Nuclei were stained blue with DAPI; Ubiquitination factor E4 B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Ubiquitination factor E4 B-Alexa Fluor® 647

Validation of Ubiquitination factor E4 B knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Ubiquitination factor E4 B antibody (KVA00885, 1:2,000) and analyzed using BD flow cytometer.



Ubiquitination factor E4 B-Alexa Fluor® 647

Flow cytometric analysis of Ubiquitination factor E4 B expression in HepG2 cells using Ubiquitination factor E4 B antibody (KVA00885, 1:2,000). Green, isotype control; red, Ubiquitination factor E4 B.