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KD-Validated Anti-Ubiquitination Factor E4B Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1716

Product Information

Application	WB, FC, ICC
Primary Accession	O95155
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1765
Calculated MW	146185
Gene Name	UBE4B
Aliases	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
Immunogen	A synthesized peptide derived from human UBE4B

Additional Information

Gene ID	10277
Other Names	Ubiquitin conjugation factor E4 B, 2.3.2.27, UBE4B (HGNC:12500)

Protein Information

Name	UBE4B (HGNC:12500)
Function	Acts as an E3 ubiquitin ligase and E4 ubiquitin chain elongation enzyme specifically involved in polyubiquitin chain assembly (PubMed:21317885). Plays an essential role in cardiac development and in the protection of neurons from degeneration evoked by ER stress (By similarity). Is recruited to early endosomes via interaction with the ESCRT-0 component HGS, where it ubiquitinates membrane protein cargo such as EGFR and APP to promote their sorting into multivesicular bodies and subsequent lysosomal degradation (PubMed:24344129, PubMed:32841720). Promotes MDM2-mediated polyubiquitination and subsequent degradation of the tumor suppressor TP53 (PubMed:21317885). May regulate myosin assembly in striated muscles together with STUB1 and VCP/p97 by targeting myosin chaperone UNC45B for proteasomal degradation (PubMed:17369820). Mediates the formation of 'Lys-11'- or 'Lys-48'-linked polyubiquitin chains on

	TRA2A and PYCR2 and induces their degradation by the proteasome (PubMed:35669517). Thereby regulates the alternative splicing function of TRA2A (PubMed:35669517). Also regulates the mTOR signaling pathway by polyubiquitinating KLHL22, an E3 ligase that degrades the GATOR1 complex protein DEPDC5 (By similarity). Under mitochondrial depolarization, mediates the ubiquitination of NIPSNAP1, thereby promoting its interaction with autophagy receptors NDP52 and p62/SQSTM1 and its subsequent degradation via the lysosome-dependent pathway (PubMed:41596759).
Cellular Location	Early endosome. Cytoplasm Nucleus {ECO:0000250|UniProtKB:Q9ES00}
Tissue Location	Expressed in differentiated myotubes (at protein level) (PubMed:17369820). Highest expression in ovary, testis, heart and skeletal muscle (PubMed:11802788). Expression is low in colon, thymus and peripheral blood leukocytes (PubMed:11802788). Almost undetectable in lung and spleen (PubMed:11802788)

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