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UBE4B Antibody

Rabbit mAb
Catalog # AP92663

Product Information

Application	WB
Primary Accession	O95155
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	HDNB1; Ube4b; UBOX3; UFD2; UFD2a; Ufd2p;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	146185

Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from UBE4B
Description	Binds to the ubiquitin moieties of preformed conjugates and catalyzes ubiquitin chain assembly in conjunction with E1, E2, and E3.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

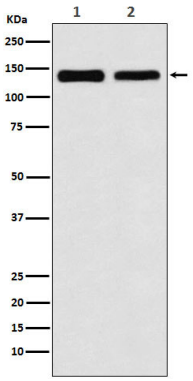
Name	UBE4B (HGNC:12500)
Function	Acts as an E3 ubiquitin ligase and E4 ubiquitin chain elongation enzyme specifically involved in polyubiquitin chain assembly (PubMed:21317885). Plays an essential role in cardiac development and in the protection of neurons from degeneration evoked by ER stress (By similarity). 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)

Images



Western blot analysis of UBE4B expression in (1) 293T cell lysate; (2) NIH/3T3 cell lysate.

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