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Anti-UBE4B Rabbit Monoclonal Antibody

Catalog # ABO16080

Product Information

Application	WB
Primary Accession	O95155
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-UBE4B Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	10277
Other Names	Ubiquitin conjugation factor E4 B, 2.3.2.27, UBE4B (HGNC:12500)
Calculated MW	146185
Application Details	WB 1:500-1:2000
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 26U59
Immunogen	A synthesized peptide derived from UBE4B
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

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).

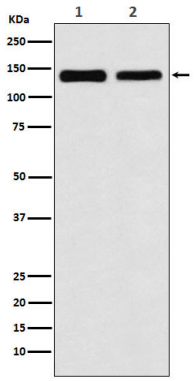
Cellular Location

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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