UBE2N Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	UBE2N, Polyclonal Antibody
Full Product Name	UBE2N (Ubiquitin-conjugating Enzyme E2 N, Bendless-like Ubiquitin-conjugating Enzyme, Ubc13, UbcH13, Ubiquitin carrier Protein N, Ubiquitin-Protein Ligase N, UBE2N, BLU) (MaxLight 750)
Product Gene Name	anti-UBE2N antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes UBE2N. Species Crossreactivity: human, rat
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	17,138 Da
OMIM	603679
3D Structure	ModBase 3D Structure for P61088
Immunogen	KLH conjugated synthetic peptide corresponding to aa41-74 at the Central region of human UBE2N.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-UBE2N antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-UBE2N antibody	Western Blot (WB)
Application Notes for anti-UBE2N antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-UBE2N antibody	MBS6460054 is an antibody targeting UBE2N. Also known as UBE2N (Ubiquitin-conjugating Enzyme E2 N, Bendless-like Ubiquitin-conjugating Enzyme, Ubc13, UbcH13, Ubiquitin carrier Protein N, Ubiquitin-Protein Ligase N, UBE2N, BLU) (MaxLight 750). Reactive in Human, Rat. Host: Rabbit.
Product References and Citations for anti-UBE2N antibody	Yamaguchi T., et al. J. Biochem. 120:494-497(1996). Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Lubec G., et al. Submitted (DEC-2008) to UniProtKB. Zou W., et al. Biochem. Biophys. Res. Commun. 336:61-68(2005). Hofmann R.M., et al. Cell 96:645-653(1999).
Other Notes	Small volumes of anti-UBE2N antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE2N. It may not necessarily be applicable to this product.

NCBI GI #	4507793
NCBI GeneID	7334
NCBI Accession #	NP_003339.1
UniProt Primary Accession #	P61088
UniProt Secondary Accession #	Q16781; Q53Y81
UniProt Related Accession #	P61088
GenBank Nucleotide #	NM_003348.3
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 N
NCBI Official Synonym Full Names	ubiquitin-conjugating enzyme E2N
NCBI Official Symbol	UBE2N
NCBI Official Synonym Symbols	UBC13; UbcH13; HEL-S-71; UbcH-ben; UBCHBEN; UBC13
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 N
UniProt Synonym Protein Names	Bendless-like ubiquitin-conjugating enzyme; Ubc13; UbcH13; Ubiquitin carrier protein N; Ubiquitin-protein ligase N
Protein Family	Probable ubiquitin-conjugating enzyme
UniProt Gene Name	UBE2N
UniProt Synonym Gene Names	BLU
UniProt Entry Name	UBE2N_HUMAN
NCBI Protein Information	ubiquitin-conjugating enzyme E2 N; bendless-like ubiquitin conjugating enzyme; bendless-like ubiquitin-conjugating enzyme; epididymis secretory protein Li 71; ubiquitin carrier protein N; ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast); ubiquitin-
NCBI Summary for UBE2N	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 a member of the E2 ubiquitin-conjugating enzyme family. Studies in mouse suggest that this protein plays a role in DNA postreplication repair. [provided by RefSeq, Jul 2008]

UniProt Comments for UBE2N	UBE2N: The UBE2V1-UBE2N and UBE2V2-UBE2N heterodimers catalyze the synthesis of non-canonical 'Lys-63'-linked polyubiquitin chains. This type of polyubiquitination does not lead to protein degradation by the proteasome. Mediates transcriptional activation of target genes. Plays a role in the control of progress through the cell cycle and differentiation. Plays a role in the error-free DNA repair pathway and contributes to the survival of cells after DNA damage. Acts together with the E3 ligases, HLTF and SHPRH, in the 'Lys-63'-linked poly-ubiquitination of PCNA upon genotoxic stress, which is required for DNA repair. Appears to act together with E3 ligase RNF5 in the 'Lys-63'-linked polyubiquitination of JKAMP thereby regulating JKAMP function by decreasing its association with components of the proteasome and ERAD. Heterodimer with UBE2V2. Interacts (UBE2V2-UBE2N heterodimer) with the E3 ligase STUB1 (via the U-box domain); the complex has a specific 'Lys-63'-linked polyubiquitination activity. Interacts with RNF8 and RNF168. Interacts with RNF11. Interacts with the E3 ligases, HLTF and SHPRH; the interactions promote the 'Lys-63'-linked polyubiquitination of PCNA upon genotoxic stress and lead to DNA repair. Interacts with ARIH2 (via RING-type 2). Belongs to the ubiquitin-conjugating enzyme family. Protein type: Ligase; Ubiquitin conjugating system; EC 6.3.2.19; Ubiquitin ligase; DNA repair, damage Chromosomal Location of Human Ortholog: 12q22 Cellular Component: protein complex; cytoplasm; nucleus; cytosol; ubiquitin ligase complex; UBC13-MMS2 complex Molecular Function: ubiquitin binding; protein binding; small conjugating protein ligase activity; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; ATP binding; ligase activity Biological Process: ubiquitin-dependent protein catabolic process; regulation of histone ubiquitination; positive regulation of DNA repair; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of histone modification; postreplication repair; cytokine and chemokine mediated signaling pathway; DNA double-strand break processing; protein modification process; protein ubiquitination; proteolysis; T cell receptor signaling pathway; double-strand break repair via homologous recombination; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; regulation of DNA repair; toll-like receptor 5 signaling pathway; positive regulation of ubiquitin-protein ligase activity; histone ubiquitination; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway
Research Articles on UBE2N	**1.** UBE2N inhibition induces neuroblastoma apoptotic cell death via activation of p53 and JNK pathways.
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