Ubiquitin Conjugating Enzyme E2S (UBE2S) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Ubiquitin Conjugating Enzyme E2S (UBE2S), Polyclonal Antibody
Full Product Name	Ubiquitin Conjugating Enzyme E2S, NT (Ubiquitin-conjugating Enzyme E2S, UBE2S, E2EPF, E2-EPF5, OK/SW-cl.73, Ubiquitin-conjugating Enzyme E2-24kD) (MaxLight 550)
Product Gene Name	anti-UBE2S antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human E2EPF.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	23,845 Da
OMIM	610309
3D Structure	ModBase 3D Structure for Q16763
Immunogen	Synthetic peptide selected from the N-terminal region of human E2EPF (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-UBE2S antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-UBE2S antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-UBE2S antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-UBE2S antibody	MBS6504635 is an antibody targeting UBE2S. Also known as Ubiquitin Conjugating Enzyme E2S, NT (Ubiquitin-conjugating Enzyme E2S, UBE2S, E2EPF, E2-EPF5, OK/SW-cl.73, Ubiquitin-conjugating Enzyme E2-24kD) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-UBE2S antibody	1. Strausberg, R.L., et al., Proc. Natl. Acad. Sci. USA 99(26):16899-16903 (2002). 2. Liu, Z., et al., J. Biol. Chem. 267(22):15829-15835 (1992).
Other Notes	Small volumes of anti-UBE2S 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 UBE2S. It may not necessarily be applicable to this product.

NCBI GI #	112382377
NCBI GeneID	27338
NCBI Accession #	NP_055316
UniProt Primary Accession #	Q16763
UniProt Secondary Accession #	Q9BTC1
UniProt Related Accession #	Q16763
GenBank Nucleotide #	NM_014501
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 S
NCBI Official Synonym Full Names	ubiquitin-conjugating enzyme E2S
NCBI Official Symbol	UBE2S
NCBI Official Synonym Symbols	EPF5; E2EPF; E2-EPF
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 S
UniProt Synonym Protein Names	E2-EPF; Ubiquitin carrier protein S; Ubiquitin-conjugating enzyme E2-24 kDa; Ubiquitin-conjugating enzyme E2-EPF5; Ubiquitin-protein ligase S
Protein Family	Ubiquitin-conjugating enzyme
UniProt Gene Name	UBE2S
UniProt Synonym Gene Names	E2EPF
UniProt Entry Name	UBE2S_HUMAN
NCBI Protein Information	ubiquitin-conjugating enzyme E2 S; E2-EPF5; ubiquitin carrier protein S; ubiquitin-conjugating enzyme E2-24 kD; ubiquitin-conjugating enzyme E2-24 kDa; ubiquitin-conjugating enzyme E2-EPF5; ubiquitin-protein ligase S
UniProt Comments for UBE2S	UBE2S: Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. Catalyzes 'Lys-11'-linked polyubiquitination. Acts as an essential factor of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis. Acts by specifically elongating 'Lys-11'-linked polyubiquitin chains initiated by the E2 enzyme UBE2C/UBCH10 on APC/C substrates, enhancing the degradation of APC/C substrates by the proteasome and promoting mitotic exit. Also acts by elongating ubiquitin chains initiated by the E2 enzyme UBE2D1/UBCH5 in vitro; it is however unclear whether UBE2D1/UBCH5 acts as a E2 enzyme for the APC/C in vivo. Also involved in ubiquitination and subsequent degradation of VHL, resulting in an accumulation of HIF1A. In vitro able to promote polyubiquitination using all 7 ubiquitin Lys residues, except 'Lys-48'-linked polyubiquitination. Component of the APC/C complex. Interacts with CDC20, FZR1/CDH1 and VHL. Belongs to the ubiquitin-conjugating enzyme family. Protein type: Ubiquitin ligase; EC 6.3.2.19; Ubiquitin conjugating system; Ligase Chromosomal Location of Human Ortholog: 19q13.43 Cellular Component: anaphase-promoting complex; cytoplasm Molecular Function: small conjugating protein ligase activity; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; ATP binding; ligase activity Biological Process: anaphase-promoting complex activation; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; cell division; protein modification process; exit from mitosis

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