UBA6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	UBA6, Polyclonal Antibody
Full Product Name	UBA6, CT (UBA6, MOP4, UBE1L2, Ubiquitin-like modifier-activating enzyme 6, Monocyte protein 4, Ubiquitin-activating enzyme E1-like protein 2) (MaxLight 750)
Product Gene Name	anti-UBA6 antibody
Product Synonym Names	UBA6; MOP4; UBE1L2; Ubiquitin-like modifier-activating enzyme 6; Monocyte protein 4; Ubiquitin-activating enzyme E1-like protein 2
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 MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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	37,693 Da
OMIM	611361
3D Structure	ModBase 3D Structure for A0AVT1
Immunogen	UBA6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 860-889 amino acids from the C-terminal region of human UBA6.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-UBA6 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-UBA6 antibody	Western Blot (WB), FLISA
Application Notes for anti-UBA6 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-UBA6 antibody	Modification of proteins with ubiquitin (UBB; MIM 191339) or ubiquitin-like proteins controls many signaling networks and requires a ubiquitin-activating enzyme (E1), a ubiquitin conjugating enzyme (E2), and a ubiquitin protein ligase (E3). UBE1L2 is an E1 enzyme that initiates the activation and conjugation of ubiquitin-like proteins (Jin et al., 2007 [PubMed 17597759]).
Product References and Citations for anti-UBA6 antibody	Groettrup, M., et al. Trends Biochem. Sci. 33(5):230-237(2008). Chiu, Y.H., et al. Mol. Cell 27(6):1014-1023(2007). Pelzer, C., et al. J. Biol. Chem. 282(32):23010-23014(2007). Jin, J., et al. Nature 447(7148):1135-1138(2007). Hillier, L.W., et al. Nature 434(7034):724-731(2005).

Other Notes	Small volumes of anti-UBA6 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.
Searchable Terms for UBA6 purchase	MBS6360550 is an antibody targeting UBA6. Also known as UBA6, CT (UBA6, MOP4, UBE1L2, Ubiquitin-like modifier-activating enzyme 6, Monocyte protein 4, Ubiquitin-activating enzyme E1-like protein 2) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBA6. It may not necessarily be applicable to this product.

NCBI GI #	150417996
NCBI GeneID	55236
NCBI Accession #	NP_060697.4
UniProt Primary Accession #	A0AVT1
UniProt Secondary Accession #	Q4W5K0; Q6UV21; Q86T78; Q86TC7; Q8N5T3; Q8N9E4; Q9H3T7; Q9NVC9; A6N8M7; B2RAV3
UniProt Related Accession #	A0AVT1
GenBank Nucleotide #	NM_018227.5
NCBI Official Full Name	ubiquitin-like modifier-activating enzyme 6
NCBI Official Synonym Full Names	ubiquitin-like modifier activating enzyme 6
NCBI Official Symbol	UBA6
NCBI Official Synonym Symbols	E1-L2; MOP-4; UBE1L2
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme 6
UniProt Synonym Protein Names	Monocyte protein 4; MOP-4; Ubiquitin-activating enzyme E1-like protein 2; E1-L2
Protein Family	Ubiquitin-like modifier-activating enzyme
UniProt Gene Name	UBA6
UniProt Synonym Gene Names	MOP4; UBE1L2; Ubiquitin-activating enzyme 6; MOP-4; E1-L2
UniProt Entry Name	UBA6_HUMAN
NCBI Protein Information	ubiquitin-like modifier-activating enzyme 6; monocyte protein 4; ubiquitin-activating enzyme 6; UBA6, ubiquitin-activating enzyme E1; ubiquitin-activating enzyme E1-like 2; ubiquitin-activating enzyme E1-like protein 2
UniProt Comments for UBA6	UBE1L2: Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding an ubiquitin- E1 thioester and free AMP. Specific for ubiquitin, does not activate ubiquitin-like peptides. Differs from UBE1 in its specificity for substrate E2 charging. Does not charge cell cycle E2s, such as CDC34. Essential for embryonic development. Required for UBD/FAT10 conjugation. Isoform 2 may play a key role in ubiquitin system and may influence spermatogenesis and male fertility. Belongs to the ubiquitin-activating E1 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin ligase; EC 6.3.2.19; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 4q13.2 Cellular Component: cytoplasm; cytosol Molecular Function: protein binding; FAT10 activating enzyme activity; ATP binding Biological Process: ubiquitin-dependent protein catabolic process; protein ubiquitination
Research Articles on UBA6	**1.** Diminished ubiquitylation phenotype observed in enteropathogenic Escherichia coli infected cells corresponds to a strong reduction in the abundance of both Ube1 and Uba6.

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