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UBA6 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16886b

Specification

UBA6 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession A0AVT1

UBA6 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 55236

Other Names
Ubiquitin-like modifier-activating enzyme 6, Ubiquitin-activating enzyme 6, Monocyte protein 4, MOP-4, Ubiquitin-activating enzyme E1-like protein 2, E1-L2, UBA6, MOP4, UBE1L2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

UBA6 Antibody (C-term) Blocking Peptide - Protein Information

Name UBA6

Synonyms MOP4, UBE1L2

Function
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 a 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.

Tissue Location
Widely expressed. Isoform 2 is predominantly expressed in testis with higher expression in adult testis than in fetal testis.

UBA6 Antibody (C-term) Blocking Peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

UBA6 Antibody (C-term) Blocking Peptide - Images

UBA6 Antibody (C-term) Blocking Peptide - Background

Modification of proteins with ubiquitin (UBB; MIM 191339)or ubiquitin-like proteins controls many signaling networks andrequires a ubiquitin-activating enzyme (E1), a ubiquitinconjugating enzyme (E2), and a ubiquitin protein ligase (E3).UBE1L2 is an E1 enzyme that initiates the activation andconjugation of ubiquitin-like proteins (Jin et al., 2007 [PubMed17597759]).

UBA6 Antibody (C-term) Blocking Peptide - References

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)