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UBA52 Antibody (C-Term) Blocking peptide
Synthetic peptide
Catalog # BP10176b

Specification

UBA52 Antibody (C-Term) Blocking peptide - Product Information

Primary Accession	P62987
Other Accession	NP_001029102.1, NP_003324.1

UBA52 Antibody (C-Term) Blocking peptide - Additional Information

Gene ID 7311

Other Names
Ubiquitin-60S ribosomal protein L40, CEP52, Ubiquitin A-52 residue ribosomal protein fusion product 1, Ubiquitin, 60S ribosomal protein L40, UBA52, UBCEP2

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.

UBA52 Antibody (C-Term) Blocking peptide - Protein Information

Name UBA52

Synonyms UBCEP2

Function
[Ubiquitin]: Exists either covalently attached to another protein, or free (unanchored). When covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiquitin), a polymer linked via different Lys residues of the ubiquitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in proteotoxic stress response and cell cycle; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has

distinct roles, such as in activation of protein kinases, and in signaling.

Cellular Location
[Ubiquitin]: Cytoplasm. Nucleus

UBA52 Antibody (C-Term) Blocking peptide - Protocols

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

- Blocking Peptides

UBA52 Antibody (C-Term) Blocking peptide - Images

UBA52 Antibody (C-Term) Blocking peptide - Background

Ubiquitin is a highly conserved nuclear and cytoplasmicprotein that has a major role in targeting cellular proteins fordegradation by the 26S proteosome. It is also involved in themaintenance of chromatin structure, the regulation of geneexpression, and the stress response. Ubiquitin is synthesized as aprecursor protein consisting of either polyubiquitin chains or asingle ubiquitin moiety fused to an unrelated protein. This geneencodes a fusion protein consisting of ubiquitin at the N terminusand ribosomal protein L40 at the C terminus, a C-terminal extensionprotein (CEP). Multiple processed pseudogenes derived from thisgene are present in the genome.

UBA52 Antibody (C-Term) Blocking peptide - References

Memet, S. Biochem. Pharmacol. 72(9):1180-1195(2006)Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)Foster, L.J., et al. J. Proteome Res. 5(1):64-75(2006)Hu, Y., et al. Mol. Cell Proteomics 4(12):2000-2009(2005)Westhoff, B., et al. Curr. Biol. 15(11):1058-1064(2005)