USP15 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	USP15, Blocking Peptide
Full Product Name	USP15 Peptide - middle region
Product Gene Name	USP15 blocking peptide
Product Synonym Gene Name	UNPH4; UNPH-2
Sequence	Synthetic peptide located within the following region: CLPSYTAYKN YDYSEPGRNN EQPGLCGLSN LGNTCFMNSA IQCLSNTPPL
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	USP15 peptide (MBS3247179) is used for blocking the activity of USP15 antibody (MBS3222511)
Molecular Weight	107 kDa
OMIM	604731
Product Categories/Family for USP15 blocking peptide	Peptide
Related Product Information for USP15 blocking peptide	This is a synthetic peptide designed for use in combination with anti- USP15 Antibody, made Target Description: This gene encodes a member of the ubiquitin specific protease (USP) family of deubiquitinating enzymes. USP enzymes play critical roles in ubiquitin-dependent processes through polyubiquitin chain disassembly and hydrolysis of ubiquitin-substrate bonds. The encoded protein associates with the COP9 signalosome, and also plays a role in transforming growth factor beta signalling through deubiquitination of receptor-activated SMAD transcription factors. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 2.
Other Notes	Small volumes of USP15 blocking peptide 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 USP15 purchase	MBS3247179 is a blocking peptide targeting USP15. Also known as USP15 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP15. It may not necessarily be applicable to this product.

NCBI GI #	355330276
NCBI GeneID	9958
NCBI Accession #	NP_001239007.1
UniProt Primary Accession #	Q9Y4E8
UniProt Related Accession #	Q9Y4E8
GenBank Nucleotide #	NM_001252078.1

NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 15 isoform 1
NCBI Official Synonym Full Names	ubiquitin specific peptidase 15
NCBI Official Symbol	USP15
NCBI Official Synonym Symbols	UNPH4; UNPH-2
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 15
UniProt Synonym Protein Names	Deubiquitinating enzyme 15; Ubiquitin thioesterase 15; Ubiquitin-specific-processing protease 15; Unph-2; Unph4
UniProt Gene Name	USP15
UniProt Synonym Gene Names	KIAA0529
UniProt Entry Name	UBP15_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 15
NCBI Summary for USP15	This gene encodes a member of the ubiquitin specific protease (USP) family of deubiquitinating enzymes. USP enzymes play critical roles in ubiquitin-dependent processes through polyubiquitin chain disassembly and hydrolysis of ubiquitin-substrate bonds. The encoded protein associates with the COP9 signalosome, and also plays a role in transforming growth factor beta signalling through deubiquitination of receptor-activated SMAD transcription factors. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 2. [provided by RefSeq, Nov 2011]
UniProt Comments for USP15	USP15: Protease that degrades 'Lys-48'-linked polyubiquitin chains. Protects target proteins against proteasomal degradation. Protects APC and human papillomavirus type 16 protein E6 against degradation via the ubiquitin proteasome pathway. Belongs to the peptidase C19 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Ubiquitin-specific protease; EC 3.4.19.12; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 12q14 Cellular Component: cytoplasm; nucleus Molecular Function: identical protein binding; protein binding; cysteine-type endopeptidase activity; ubiquitin-specific protease activity; SMAD binding; transforming growth factor beta receptor binding Biological Process: BMP signaling pathway; proteasomal ubiquitin-dependent protein catabolic process; protein deubiquitination; transforming growth factor beta receptor signaling pathway; negative regulation of transforming growth factor beta receptor signaling pathway
Research Articles on USP15	**1.** a USP15-dependent lysosomal pathway controls p53-R175H turnover in ovarian cancer cells
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