USP16 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	USP16, Blocking Peptide
Full Product Name	USP16 Antibody (N-term) Blocking Peptide
Product Gene Name	USP16 blocking peptide
Product Synonym Names	Ubiquitin carboxyl-terminal hydrolase 16; 341912; Deubiquitinating enzyme 16; Ubiquitin thioesterase 16; Ubiquitin-processing protease UBP-M; Ubiquitin-specific-processing protease 16; USP16
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human USP16. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Molecular Weight	46,599 Da
OMIM	604735
Cellular Location	Nucleus.
Tissue Location	Present in all the tissues examined including fetal brain, lung, liver, kidney, and adult heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas
Related Product Information for USP16 blocking peptide	Specifically deubiquitinates 'Lys-120' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser-11' of histone H3 (H3S10ph), and is required for chromosome segregation when cells enter into mitosis. In resting B- and T- lymphocytes, phosphorylation by AURKB leads to enhance its activity, thereby maintaining transcription in resting lymphocytes. Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B.
Other Notes	Small volumes of USP16 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 USP16 purchase	MBS9224587 is a blocking peptide targeting USP16. Also known as USP16 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP16. It may not necessarily be applicable to this product.

NCBI GI #	6686071
NCBI GeneID	10600
NCBI Accession #	Q9Y5T5.1
UniProt Primary Accession #	Q9Y5T5
UniProt Secondary Accession #	Q53GP7; Q53HA0; Q5VKN8; Q8NEL3; Q9H3E6; A8MU43; B3KN13; B4DFV8; B4DY37; D3DSD9
UniProt Related Accession #	Q9Y5T5
NCBI Official Full Name	Ubiquitin carboxyl-terminal hydrolase 16
NCBI Official Synonym Full Names	ubiquitin specific peptidase 16

NCBI Official Symbol	USP16
NCBI Official Synonym Symbols	UBPM; UBP-M
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 16
UniProt Synonym Protein Names	Deubiquitinating enzyme 16
UniProt Gene Name	USP16
UniProt Entry Name	UBP16_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 16
NCBI Summary for USP16	This gene encodes a deubiquitinating enzyme that is phosphorylated at the onset of mitosis and then dephosphorylated at the metaphase/anaphase transition. It can deubiquitinate H2A, one of two major ubiquitinated proteins of chromatin, in vitro and a mutant form of the protein was shown to block cell division. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for USP16	USP16: a ubiquitous ubiquitin-processing protease that may de-ubiquitinate one or more critical proteins that are involved in the condensation of mitotic chromosomes, possibly acting selectively on histones H2A and H2B, the major ubiquitinated proteins of chromatin. Is phosphorylated at the onset of mitosis and dephosphorylated during the metaphase/anaphase transition. Protein type: EC 3.4.19.12; Ubiquitin conjugating system; Protease; Ubiquitin-specific protease Chromosomal Location of Human Ortholog: 21q22.11 Cellular Component: cytoplasm; nucleus Molecular Function: cysteine-type endopeptidase activity; histone binding; transcription coactivator activity; ubiquitin binding; ubiquitin-specific protease activity; zinc ion binding Biological Process: cell cycle; histone deubiquitination; mitosis; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; positive regulation of translational elongation; protein homotetramerization; regulation of transcription from RNA polymerase II promoter; response to DNA damage stimulus
Research Articles on USP16	**1.** The data unveil a unique mechanism by which Usp16 promotes the localization and maintenance of Plk1 on the kinetochores for proper chromosome alignment.
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