TLK2 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	TLK2, Blocking Peptide
Full Product Name	TLK2 Antibody (Center) Blocking Peptide
Product Gene Name	TLK2 blocking peptide
Product Synonym Names	Serine/threonine-protein kinase tousled-like 2; HsHPK; PKU-alpha; Tousled-like kinase 2; TLK2
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 Center region of human TLK2. 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.
Antibody/Peptide Pairs	TLK2 peptide (MBS9227540) is used for blocking the activity of TLK2 antibody (MBS9202210)
Molecular Weight	82,348 Da
OMIM	608439
Cellular Location	Nucleus. Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton. Note: Colocalizes with the cytoplasmic intermediate filament system during the G1 phase of the cell cycle. Present in the perinuclear region at S phase and in the nucleus at late G2
Tissue Location	Ubiquitous. Detected in placenta, fetal liver, kidney, pancreas, heart and skeletal muscle. Highly expressed in testis. Detected in spleen, thymus, colon, ovary, small intestine, prostate and peripheral blood leukocytes
Related Product Information for TLK2 blocking peptide	Serine/threonine-protein kinase involved in the process of chromatin assembly and probably also DNA replication, transcription, repair, and chromosome segregation. Phosphorylates the chromatin assembly factors ASF1A AND ASF1B. Phosphorylation of ASF1A prevents its proteasome-mediated degradation, thereby enhancing chromatin assembly. Negative regulator of amino acid starvation-induced autophagy.
Other Notes	Small volumes of TLK2 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 TLK2 purchase	MBS9227540 is a blocking peptide targeting TLK2. Also known as TLK2 Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLK2. It may not necessarily be applicable to this product.

NCBI GI #	34222826
NCBI GeneID	11011
NCBI Accession #	Q86UE8.2
UniProt Primary Accession #	Q86UE8
UniProt Secondary Accession #	Q9UKI7; Q9Y4F7; D3DU07
UniProt Related Accession #	Q86UE8
NCBI Official Full Name	Serine/threonine-protein kinase tousled-like 2
NCBI Official Synonym Full Names	tousled like kinase 2

NCBI Official Symbol	TLK2
NCBI Official Synonym Symbols	HsHPK; PKU-ALPHA
UniProt Protein Name	Serine/threonine-protein kinase tousled-like 2
UniProt Synonym Protein Names	HsHPK; PKU-alpha; Tousled-like kinase 2
Protein Family	Serine/threonine-protein kinase tousled
UniProt Gene Name	TLK2
UniProt Entry Name	TLK2_HUMAN
NCBI Protein Information	serine/threonine-protein kinase tousled-like 2
NCBI Summary for TLK2	This gene encodes a nuclear serine/threonine kinase that was first identified in Arabidopsis. The encoded protein is thought to function in the regulation of chromatin assembly in the S phase of the cell cycle by regulating the levels of a histone H3/H4 chaperone. This protein is associated with double-strand break repair of DNA damage caused by radiation. Pseudogenes of this gene are present on chromosomes 10 and 17. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]
UniProt Comments for TLK2	TLK2: Serine/threonine-protein kinase involved in the process of chromatin assembly and probably also DNA replication, transcription, repair, and chromosome segregation. Phosphorylates the chromatin assembly factors ASF1A AND ASF1B. Phosphorylation of ASF1A prevents its proteasome-mediated degradation, thereby enhancing chromatin assembly. Negative regulator of amino acid starvation-induced autophagy. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, protein; EC 2.7.11.1; Protein kinase, Other; Protein kinase, Ser/Thr (non-receptor); Other group; TLK family Chromosomal Location of Human Ortholog: 17q23 Cellular Component: cell junction; intermediate filament; nucleus; perinuclear region of cytoplasm Molecular Function: ATP binding; protein binding; protein serine/threonine kinase activity Biological Process: chromosome segregation; negative regulation of proteasomal ubiquitin-dependent protein catabolic process; peptidyl-serine phosphorylation; protein amino acid phosphorylation; regulation of chromatin assembly or disassembly; response to DNA damage stimulus
Research Articles on TLK2	**1.** TLK2 plays a role in Kaposi's sarcoma-associated herpesvirus reactivation.
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