Phospho-TLK1 (Ser741) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TLK1, Blocking Peptide
Full Product Name	Phospho-TLK1 (Ser741) Blocking Peptide
Product Gene Name	TLK1 blocking peptide
Product Synonym Names	PKU beta; PKU-beta; serine threonine protein kinase; Serine/threonine protein kinase tousled like 1; Serine/threonine-protein kinase tousled-like 1; SNARE protein kinase SNAK; Tlk1; TLK1_HUMAN; Tousled like kinase 1; Tousled-like kinase 1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
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	TLK1 (Ser741) peptide (MBS9618992) is used for blocking the activity of TLK1 (Ser741) antibody (MBS9614030)
Molecular Weight	86,700 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (171847333..172087824, complement). Location: 2q31.1
OMIM	608438
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TLK1 blocking peptide	Blocking/Control
Related Product Information for TLK1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TLK1 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 TLK1 purchase	MBS9618992 is a blocking peptide targeting TLK1. Also known as Phospho-TLK1 (Ser741) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLK1. It may not necessarily be applicable to this product.

NCBI GI #	211971036
NCBI GeneID	9874
NCBI Accession #	NP_001130026.1

UniProt Primary Accession #	Q9UKI8
UniProt Secondary Accession #	Q14150; Q8N591; Q9NYH2; Q9Y4F6; B3KR15; B4DX87
UniProt Related Accession #	Q9UKI8
GenBank Nucleotide #	NM_001136554.1
NCBI Official Full Name	serine/threonine-protein kinase tousled-like 1 isoform 2
NCBI Official Synonym Full Names	tousled-like kinase 1
NCBI Official Symbol	TLK1
NCBI Official Synonym Symbols	PKU-beta
UniProt Protein Name	Serine/threonine-protein kinase tousled-like 1
UniProt Synonym Protein Names	PKU-beta; Tousled-like kinase 1
Protein Family	Serine/threonine-protein kinase tousled
UniProt Gene Name	TLK1
UniProt Synonym Gene Names	KIAA0137
UniProt Entry Name	TLK1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase tousled-like 1; SNARE protein kinase SNAK; serine threonine protein kinase
NCBI Summary for TLK1	The protein encoded by this gene is a serine/threonine kinase that may be involved in the regulation of chromatin assembly. The encoded protein is only active when it is phosphorylated, and this phosphorylation is cell cycle-dependent, with the maximal activity of this protein coming during S phase. The catalytic activity of this protein is diminished by DNA damage and by blockage of DNA replication. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for TLK1	TLK1 iso1: a protein kinase of the TLK family. Rapidly and transiently inhibited by phosphorylation following the generation of DNA double-stranded breaks during S-phase. This is cell cycle checkpoint and ATM-pathway dependent and appears to regulate processes involved in chromatin assembly. Isoform 3 phosphorylates and enhances the stability of the t-SNARE SNAP23, augmenting its assembly with syntaxin. Cell-cycle regulated, maximal activity in S-phase. Inactivated by phosphorylation, possibly by CHK1. Three splice variant isoforms have been described. Protein type: Protein kinase, Other; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.1; Other group; TLK family Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: nucleus Molecular Function: protein serine/threonine kinase activity; ATP binding Biological Process: intracellular protein transport; regulation of chromatin assembly or disassembly; chromatin modification; cell cycle; response to DNA damage stimulus; protein amino acid phosphorylation
Research Articles on TLK1	**1.** TLKs appear to be intimately linked to the pattern of resistance to DNA damage, and specifically double-strand breaks.
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