Phospho-MST1 (Thr183/Thr180) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	MST1, Blocking Peptide
Full Product Name	Phospho-MST1 (Thr183/Thr180) Blocking Peptide
Product Gene Name	MST1 blocking peptide
Product Synonym Gene Name	STK3
Product Synonym Names	0610042I06Rik; EC 2.7.11.1; FLJ90748; KB 1458E12.1; Kinase responsive to stress 1; KRS1; Mammalian STE20 like protein kinase 2; Mammalian STE20-like protein kinase 2; Mammalian sterile 20-like 2; Mess1; MST; MST-2; MST2; Mst3; Serine/threonine kinase 3 (STE20 homolog, yeast); Serine/threonine kinase 3 (Ste20, yeast homolog); Serine/threonine kinase 3; Serine/threonine protein kinase 3; Serine/threonine protein kinase Krs1; Serine/threonine-protein kinase 3; Serine/threonine-protein kinase Krs-1; STE20 like kinase MST2; STE20-like kinase MST2; Stk3; STK3_HUMAN; wu:fc19e11; zgc:55383; 0610042I06Rik; EC 2.7.11.1; FLJ90748; KB 1458E12.1; Kinase responsive to stress 1; KRS1; Mammalian STE20 like protein kinase 2; Mammalian STE20-like protein kinase 2; Mammalian sterile 20-like 2; Mess1; MST; MST-2; MST2; Mst3; Serine/threonine kinase 3 (STE20 homolog, yeast); Serine/threonine kinase 3 (Ste20, yeast homolog); Serine/threonine kinase 3; Serine/threonine protein kinase 3; Serine/threonine protein kinase Krs1; Serine/threonine-protein kinase 3; Serine/threonine-protein kinase Krs-1; STE20 like kinase MST2; STE20-like kinase MST2; Stk3; STK3_HUMAN; wu:fc19e11; zgc:55383
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	MST1 (Thr183/Thr180) peptide (MBS9615251) is used for blocking the activity of MST1 (Thr183/Thr180) antibody (MBS9600695)
Molecular Weight	59,462 Da
OMIM	U26424 mRNA
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 MST1 blocking peptide	Blocking/Control
Related Product Information for MST1 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 MST1 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 MST1 purchase	MBS9615251 is a blocking peptide targeting MST1. Also known as Phospho-MST1 (Thr183/Thr180) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MST1. It may not necessarily be applicable to this product.

NCBI GI #	372622373
NCBI GeneID	6788
NCBI Accession #	NP_001243241.1
UniProt Primary Accession #	Q13188
UniProt Secondary Accession #	Q15445; Q15801; Q96FM6; A8K722; B3KYA7
UniProt Related Accession #	Q13188
GenBank Nucleotide #	NM_001256312.1
NCBI Official Full Name	serine/threonine-protein kinase 3 isoform 2
NCBI Official Synonym Full Names	serine/threonine kinase 3
NCBI Official Symbol	STK3
NCBI Official Synonym Symbols	KRS1; MST2
UniProt Protein Name	Serine/threonine-protein kinase 3
UniProt Synonym Protein Names	Mammalian STE20-like protein kinase 2; MST-2
Protein Family	Hepatocyte growth factor-like protein
UniProt Gene Name	STK3
UniProt Synonym Gene Names	KRS1; MST2; MST-2; MST2/N; MST2/C
NCBI Protein Information	serine/threonine-protein kinase 3
NCBI Summary for MST1	This gene encodes a serine/threonine protein kinase activated by proapoptotic molecules indicating the encoded protein functions as a growth suppressor. Cleavage of the protein product by caspase removes the inhibitory C-terminal portion. The N-terminal portion is transported to the nucleus where it homodimerizes to form the active kinase which promotes the condensation of chromatin during apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
UniProt Comments for MST1	MST2: a protein kinase of the STE20 family. Activated by apoptotic signals as well as other stress conditions. Full activation requires both phosphorylation and caspase-mediated cleavage. Following cleavage by caspase-3, undergoes irreversible autophosphorylation. Full-length is mainly unphosphorylated in the rat thymus and cultured cells, whereas caspase-3-cleaved MST2 in apoptotic cells is highly phosphorylated. Protein type: Autophagy; EC 2.7.11.1; Kinase, protein; MST subfamily; Protein kinase, STE; Protein kinase, Ser/Thr (non-receptor); STE group; STE20 family Chromosomal Location of Human Ortholog: 8q22.2 Cellular Component: cytoplasm; cytosol; protein complex Molecular Function: ATP binding; magnesium ion binding; protein binding; protein dimerization activity; protein kinase activity; protein serine/threonine kinase activator activity; protein serine/threonine kinase activity; receptor signaling protein serine/threonine kinase activity Biological Process: apoptosis; positive regulation of apoptosis; positive regulation of protein binding; positive regulation of transcription factor activity; protein amino acid phosphorylation; protein stabilization; signal transduction
Research Articles on MST1	**1.** Results show that STK3 is targeted by Casp6 and demonstrate that alterations in STK3 protein expression levels and post-translational modifications are detected in a cellular model of HD and caspase-mediated generation of STK3 fragments observed under conditions of stress in cells expressing mhtt.

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