JTB Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	JTB, Blocking Peptide
Full Product Name	JTB Blocking Peptide
Product Gene Name	JTB blocking peptide
Product Synonym Names	hJT; HJTB; HSPC222; JTB; JTB_HUMAN; Jumping translocation breakpoint; Jumping translocation breakpoint protein; OTTHUMP00000034759; PAR; PAR protein; Prostate androgen regulated protein; Prostate androgen-regulated protein; Protein JTB
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	JTB peptide (MBS9627699) is used for blocking the activity of JTB antibody (MBS9608987)
Molecular Weight	13,356 Da
OMIM	604671
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 JTB blocking peptide	Blocking/Control
Related Product Information for JTB 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 JTB 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 JTB purchase	MBS9627699 is a blocking peptide targeting JTB.

ADDITIONAL DETAILS

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

NCBI GI #	5729889
NCBI GeneID	10899
NCBI Accession #	NP_006685.1
UniProt Primary Accession #	O76095
UniProt Secondary Accession #	O95442; Q6IB19; Q9P0Q4

UniProt Related Accession #	O76095
GenBank Nucleotide #	NM_006694.3
NCBI Official Full Name	protein JTB
NCBI Official Synonym Full Names	jumping translocation breakpoint
NCBI Official Symbol	JTB
NCBI Official Synonym Symbols	PAR; hJT; HJTB; HSPC222
UniProt Protein Name	Protein JTB
UniProt Synonym Protein Names	Jumping translocation breakpoint protein; Prostate androgen-regulated protein; PAR protein
Protein Family	Protein
UniProt Gene Name	JTB
UniProt Synonym Gene Names	PAR protein
UniProt Entry Name	JTB_HUMAN
NCBI Protein Information	protein JTB
UniProt Comments for JTB	JTB: Required for normal cytokinesis during mitosis. Plays a role in the regulation of cell proliferation. May be a component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Increases AURKB activity. Inhibits apoptosis induced by TGFB1. Overexpression induces swelling of mitochondria and reduces mitochondrial membrane potential. Belongs to the JTB family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 1q21 Cellular Component: centrosome; cytoplasm; integral to plasma membrane; membrane; midbody; spindle Molecular Function: protein kinase binding Biological Process: cytokinesis; mitosis; positive regulation of protein kinase activity
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