AURKB Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	AURKB, Blocking Peptide
Full Product Name	AURKB Peptide - N-terminal region
Product Gene Name	AURKB blocking peptide
Product Synonym Gene Name	AIK2; AIM1; ARK2; AurB; IPL1; STK5; AIM-1; STK12; PPP1R48; aurkb-sv1; aurkb-sv2
Sequence	Synthetic peptide located within the following region: AQKENSYPWP YGRQTAPSGL STLPQRVLRK EPVTPSALVL MSRSNVQPTA
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	AURKB peptide (MBS3245280) is used for blocking the activity of AURKB antibody (MBS3220479)
Molecular Weight	39 kDa
OMIM	604970
Product Categories/Family for AURKB blocking peptide	Peptide
Applications Tested/Suitable for AURKB blocking peptide	Western Blot (WB)
Related Product Information for AURKB blocking peptide	This gene encodes a member of the aurora kinase subfamily of serine/threonine kinases. The genes encoding the other two members of this subfamily are located on chromosomes 19 and 20. These kinases participate in the regulation of alignment and segregation of chromosomes during mitosis and meiosis through association with microtubules. A pseudogene of this gene is located on chromosome 8. Alternatively spliced transcript variants have been found for this gene.
Other Notes	Small volumes of AURKB 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 AURKB purchase	MBS3245280 is a blocking peptide targeting AURKB. Also known as AURKB Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	378786658
NCBI GeneID	9212
NCBI Accession #	NP_001243763.1
UniProt Primary Accession #	Q96GD4
UniProt Related Accession #	Q96GD4
GenBank Nucleotide #	NM_001256834.2
NCBI Official Full Name	aurora kinase B isoform 2

NCBI Official Synonym Full Names	aurora kinase B
NCBI Official Symbol	AURKB
NCBI Official Synonym Symbols	AIK2; AIM1; ARK2; AurB; IPL1; STK5; AIM-1; ARK-2; STK-1; STK12; PPP1R48; aurkb-sv1; aurkb-sv2
UniProt Protein Name	Aurora kinase B
UniProt Synonym Protein Names	Aurora 1; Aurora- and IPL1-like midbody-associated protein 1; AIM-1; Aurora/IPL1-related kinase 2; ARK-2; Aurora-related kinase 2; STK-1; Serine/threonine-protein kinase 12; Serine/threonine-protein kinase 5; Serine/threonine-protein kinase aurora-B
Protein Family	Aurora kinase
UniProt Gene Name	AURKB
UniProt Synonym Gene Names	AIK2; AIM1; AIRK2; ARK2; STK1; STK12; STK5; AIM-1; ARK-2
UniProt Entry Name	AURKB_HUMAN
NCBI Protein Information	aurora kinase B
UniProt Comments for AURKB	AurB: a member of the AUR family of kinases. May be directly involved in regulating the cleavage of polar spindle microtubules and is a key regulator for the onset of cytokinesis during mitosis. Expressed during S and G2/M phase and expression is upregulated in cancer cells during M phase. Localized to the midzone of central spindle in late anaphase and concentrated into the midbody in telophase and cytokinesis. Colocalizes with gamma tubulin in the mid-body. 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. Overexpressed in colorectal and other cancer cell lines and thought to cause aneuploidy via histone phosphorylation. Protein type: Protein kinase, Other; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.1; Other group; AUR family Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: spindle microtubule; spindle; spindle midzone; spindle pole centrosome; midbody; nucleus; cytosol; condensed nuclear chromosome, pericentric region; chromocenter Molecular Function: protein serine/threonine kinase activity; protein binding; metal ion binding; protein serine/threonine/tyrosine kinase activity; histone serine kinase activity; ATP binding Biological Process: positive regulation of cytokinesis; spindle stabilization; spindle checkpoint; spindle midzone assembly involved in mitosis; protein amino acid autophosphorylation; regulation of chromosome segregation; negative regulation of transcription from RNA polymerase II promoter; attachment of spindle microtubules to kinetochore; protein amino acid phosphorylation; negative regulation of cytokinesis; cell proliferation; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; histone modification; abscission; mitotic cell cycle; negative regulation of protein binding; negative regulation of B cell apoptosis; aging
Research Articles on AURKB	**1.** Aurora kinase B (AKB) siRNA-loaded nanoparticles (AKB-LfNPs) were prepared with milk protein, lactoferrin, by water in oil emulsion method.Treatment of AKB-LfNPs to GBM mice improves life expectancy and has potential to combine with conventional chemotherapy.
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