Phospho-Aurb (Thr232) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	AurB (AURKB), Blocking Peptide
Full Product Name	Phospho-AurB (Thr232) Blocking Peptide
Product Gene Name	AURKB blocking peptide
Product Synonym Names	AIK2; AIM-1; AIM1; ARK-2; ARK2; AurB; AURKB; AURKB_HUMAN; Aurora 1; Aurora and Ipl1 like midbody associated protein 1; Aurora kinase B; Aurora related kinase 2; Aurora-and Ipl1-like midbody-associated protein 1; Aurora-B; Aurora-related kinase 2; Aurora/IPL1 related kinase 2; Aurora/IPL1-related kinase 2; IPL1; PPP1R48; Protein phosphatase 1 regulatory subunit 48; Serine/theronine kinase 12; Serine/threonine protein kinase 12; Serine/threonine-protein kinase 12; Serine/threonine-protein kinase aurora-B; STK-1; STK1; STK12; STK5
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	AurB (Thr232) peptide (MBS9615827) is used for blocking the activity of AurB (Thr232) antibody (MBS9601244)
Molecular Weight	344
Chromosome Location	Chromosome: 17; NC_000017.10 (8108049..8113944, complement). Location: 17p13.1
OMIM	604970
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 AURKB blocking peptide	Blocking/Control
Related Product Information for AURKB 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 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	MBS9615827 is a blocking peptide targeting AURKB. Also known as Phospho-AurB (Thr232) Blocking Peptide.

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 Secondary Accession #	O14630; O60446; O95083; Q96DV5; Q9UQ46; B4DNM4; C7G533; C7G534; C7G535; D3DTR4; J9JID1
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; 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; ARK-2; STK-1; aurora 1; aurora-1; aurora-B; aurora kinase B-Sv1; aurora kinase B-Sv2; aurora-related kinase 2; serine/threonine kinase 12; aurora/IPL1-related kinase 2; serine/threonine-protein kinase 5; serine/threonine-protein kinase 12
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

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