Recombinant Human Aurora Kinase B, His-tagged

Cat. No. AURKB-231H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanAurora Kinase B, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 41.4 kDa (364aa).
Species	Human
Source	E.coli
Description	Aurora Kinase B is a member of a family of mitotic serine/threonine kinases. Aurora Kinase B associates with chromosomes during prophase prior to relocalizing to the spindle at anaphase. Aurora Kinase B regulates chromosome segregation through the control of microtubule-kinetochore attachment and cytokinesis. Expression of Aurora Kinase B during the G2/M phase transition is tightly coordinated with histone H3 phosphorylation, while overexpression in many kinds of cancers.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAQKENSYPW PYGRQTAPSG LSTLPQRVLR KEPVTPSALV LMSRSNVQPT AAPGQKVMEN SSGTPDILTR HFTIDDFEIG RPLGKGKFGN VYLAREKKSH FIVALKVLFK SQIEKEGVEH QLRREIEIQA HLHHPNILRL YNYFYDRRRI YLILEYAPRG ELYKELQKSC TFDEQRTATI MEELADALMY CHGKKVIHRD IKPENLLLGL KGELKIADFG WSVHAPSLRR KTMCGTLDYL PPEMIEGRMH NEKVDLWCIG VLCYELLVGN PPFESASHNE TYRRIVKVDL KFPASVPMGA QDLISKLLRH NPSERLPLAQ VSAHPWVRAN SRRVLPPSAL QSVA

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Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.5mM DTT, 20% glycerol, 0.1mM EDTA, 0.1mM EGTA, 0.1M NaCl, 0.1mM PMSF.
Purity	> 90% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	AURKB aurora kinase B [Homo sapiens]
Synonyms	AURKB; aurora kinase B ; AIK2; AIM1; ARK2; AurB; IPL1; STK5; AIM-1; STK12; aurkb-sv1; aurkb-sv2; aurora-1 aurora-B; aurora kinase B-Sv1; aurora kinase B-Sv2; serine/threonine kinase 12; EC 2.7.11.1; Aurora- and Ipl1-like midbody-associated protein 1; Aurora-related kinase 2; Aurora/IPL1-related kinase 2
Gene ID	9212
mRNA Refseq	NM_004217
Protein Refseq	NP_004208
MIM	604970
UniProt ID	Q96GD4
Chromosome Location	17p13.1

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Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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