Recombinant Human AURKB

Cat. No. AURKB-26601TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fusion protein, full length human Aurora B expressed by baculovirus in Sf9 insect cells using an N-terminal proprietary tag.
Species	Human
Description	Chromosomal segregation during mitosis as well as meiosis is regulated by kinases and phosphatases. The Aurora kinases associate with microtubules during chromosome movement and segregation. Aurora kinase B localizes to microtubules near kinetochores, specifically to the specialized microtubules called K-fibers, and Aurora kinase A (MIM 603072) localizes to centrosomes (Lampson et al.
Tissue specificity	High level expression seen in the thymus. It is also expressed in the spleen, lung, testis, colon, placenta and fetal liver. Expressed during S and G2/M phase and expression is up-regulated in cancer cells during M phase.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily.Contains 1 protein kinase domain.

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Full Length	Full L.

GENE INFORMATION

Gene Name	AURKB aurora kinase B [Homo sapiens]
Official Symbol	AURKB
Synonyms	AURKB; aurora kinase B; serine/threonine kinase 12 , STK12; Aik2; AIM 1; ARK2; AurB; aurora 1; aurora B; IPL1; PPP1R48; protein phosphatase 1; regulatory subunit 48; STK5;
Gene ID	9212
mRNA Refseq	NM_004217
Protein Refseq	NP_004208
MIM	604970
Uniprot ID	Q96GD4
Chromosome Location	17p13.1
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Aurora A signaling, organism-specific biosystem; Aurora B signaling, organism-specific biosystem; Aurora C signaling, organism-specific biosystem;

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

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