

Recombinant Human AURKA, His-tagged

Cat. No. AURKA-27420TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human Aurora A fused to His tag at N-terminus; amino acids 1-403 , 47.9kDa.
Species	Human
Source	E.coli
ProteinLength	1-403 a.a.
Description	The protein encoded by this gene is a cell cycle-regulated kinase that appears to be involved in microtubule formation and/or stabilization at the spindle pole during chromosome segregation. The encoded protein is found at the centrosome in interphase cells and at the spindle poles in mitosis. This gene may play a role in tumor development and progression. A processed pseudogene of this gene has been found on chromosome 1, and an unprocessed pseudogene has been found on chromosome 10. Multiple transcript variants encoding the same protein have been found for this gene.
Conjugation	HIS
Tissue specificity	Highly expressed in testis and weakly in skeletal muscle, thymus and spleen. Also highly expressed in colon, ovarian, prostate, neuroblastoma, breast and cervical cancer cell lines.
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20mM Tris HCl, 100mM Sodium chloride, 0.5mM DTT, 0.1mM EGTA, 0.1mM EDTA, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MDRSKENCIS GPVKATAPVG GPKRVLVTQQ FPCQNPLPVN SGQAQRVLCPL SNSSQRIPLQ AQKLVSSHKP VQNQKQKQLQ ATSVPHPVSR PLNNTQKSKQ PLPSAPENNP EEELASKQKN EESKKRQWAL EDFEIGRPLG KGKFGNVYLA REKQSKFILA LKVLFKAQLE KAGVEHQLRR EVEIQSHLRH PNILRLYGYF HDATRVYLIL EYAPLGTVYR ELQKLSKFDE QRTATYITEL ANALSYCHSK RVIHRDIKPE NLLGGSAGEL KIADFGWSVH APSSRRTTLC GTLDYLPPEM IEGRMHDEKV DLWSLGVLGY EFLVGKPPFE ANTYQETYKRISRVEFTFPD FVTEGARDLI SRLLKHNPSTQ RPMLREVLEH PWITANSSKP SNCQNKESAS KQS
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily. Contains 1 protein kinase domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	AURKA aurora kinase A [Homo sapiens]
Official Symbol	AURKA
Synonyms	AURKA; aurora kinase A; serine/threonine kinase 6 , serine/threonine kinase 15 , STK6, STK15; ARK1; AurA; BTAK; PPP1R47; protein phosphatase 1; regulatory

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	subunit 47; STK7;
Gene ID	6790
mRNA Refseq	NM_003600
Protein Refseq	NP_003591
MIM	603072
Uniprot ID	O14965
Chromosome Location	20q13
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; Cell Cycle, Mitotic, organism-specific biosystem;
Function	ATP binding; kinase activity; nucleotide binding; protein binding; protein kinase activity;