

Recombinant Mouse Aurora Kinase A, GST-tagged

Cat. No. Aurka-989M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length mouse Aurka was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
Description	Aurka belongs to a multigenic family of mitotic serine/threonine kinases which are involved in the control of chromosome segregation. Aurka is involved in centrosome separation, duplication and maturation as well as in bipolar spindle assembly and stability. Aurka is expressed and active at the highest level during G2-M phase of the cell cycle. Overexpression of Aurka has been found to be correlated with the grade of various human solid tumours. Ectopic Aurka overexpression in any culture cell line leads to polyploidy and centrosome amplification.
Applications	Kinase Assay; Western Blot
Molecular Weight	71 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	69 nmol/min/mg

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Purity	> 90 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	APC/C-mediated degradation of cell cycle proteins; Cell Cycle; Oocyte meiosis; Regulation of mitotic cell cycle; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1

GENE INFORMATION

Gene Name	Aurka aurora kinase A [Mus musculus]
Official Symbol	Aurka
Synonyms	Aurka; aurora kinase A; ARK1; IAK; Ark1; Ayk1; IAK1; Stk6; AIRK1; AU019385; AW539821; Aurora-A; serine/threonine-protein kinase 6; ARK-1; aurora A; aurora family kinase 1; aurora-related kinase 1; serine/threonine kinase 6; aurora/IPL1-related kinase 1; ipl1- and aurora-related kinase 1; serine/threonine-protein kinase Ayk1; serine/threonine-protein kinase aurora-A; Aurora family kinase 1; Aurora kinase A; Aurora/IPL1-related kinase 1; Ipl1- and aurora-related kinase 1; Serine/threonine-protein kinase Ayk1; Serine/threonine-protein kinase aurora-A; EC=2.7.11.1; OTTMUSP00000017294
Gene ID	20878

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mRNA Refseq	NM_011497
Protein Refseq	NP_035627
UniProt ID	Q3TEY6
Chromosome Location	2 H3; 2 100.0 cM
Function	ATP binding; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein kinase binding; protein serine/threonine kinase activity; transferase activity; transferase activity, transferring phosphorus-containing groups; ubiquitin protein ligase binding
Protein AURKA PDB 1mq4.	