

## Recombinant Mouse Aurora Kinase A, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length mouse Aurka was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Mouse
<b>Source</b>	Sf9 Cells
<b>Description</b>	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.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	71 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	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.
<b>Specific Activity</b>	69 nmol/min/mg

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<b>Purity</b>	> 90 %
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<b>Pathways</b>	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
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">Aurka aurora kinase A [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Aurka</a>
<b>Synonyms</b>	<a href="#">Aurka</a> ; <a href="#">aurora kinase A</a> ; <a href="#">ARK1</a> ; <a href="#">IAK</a> ; <a href="#">Ark1</a> ; <a href="#">Ayk1</a> ; <a href="#">IAK1</a> ; <a href="#">Stk6</a> ; <a href="#">AIRK1</a> ; <a href="#">AU019385</a> ; <a href="#">AW539821</a> ; <a href="#">Aurora-A</a> ; <a href="#">serine/threonine-protein kinase 6</a> ; <a href="#">ARK-1</a> ; <a href="#">aurora A</a> ; <a href="#">aurora family kinase 1</a> ; <a href="#">aurora-related kinase 1</a> ; <a href="#">serine/threonine kinase 6</a> ; <a href="#">aurora/IPL1-related kinase 1</a> ; <a href="#">ipl1- and aurora-related kinase 1</a> ; <a href="#">serine/threonine-protein kinase Ayk1</a> ; <a href="#">serine/threonine-protein kinase aurora-A</a> ; <a href="#">Aurora family kinase 1</a> ; <a href="#">Aurora kinase A</a> ; <a href="#">Aurora/IPL1-related kinase 1</a> ; <a href="#">Ipl1- and aurora-related kinase 1</a> ; <a href="#">Serine/threonine-protein kinase Ayk1</a> ; <a href="#">Serine/threonine-protein kinase aurora-A</a> ; <a href="#">EC=2.7.11.1</a> ; <a href="#">OTTMUSP00000017294</a>
<b>Gene ID</b>	<a href="#">20878</a>

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mRNA Refseq [NM\\_011497](#)

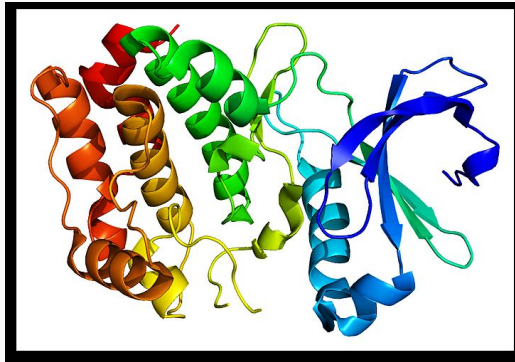
Protein Refseq [NP\\_035627](#)

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](#).



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