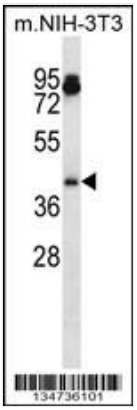
AURKA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Aurka, Polyclonal Antibody
Full Product Name	Aurka, NT (Aurka, Aik, Airk, Ark1, Aura, Ayk1, Btak, Iak1, Stk15, Stk6, Aurora kinase A, Aurora 2, Aurora family kinase 1, Aurora/IPL1-related kinase 1, Ipl1-and aurora-related kinase 1, Serine/threonine-protein kinase 6, Serine/threonine-protein kinase A
Product Gene Name	anti-Aurka antibody
Product Synonym Names	Aurka; Aik; Airk; Ark1; Aura; Ayk1; Btak; Iak1; Stk15; Stk6; Aurora kinase A; Aurora 2; Aurora family kinase 1; Aurora/IPL1-related kinase 1; Ipl1-and aurora-related kinase 1; Serine/threonine-protein kinase 6; Serine/threonine-protein kinase Ayk1; Serine/threonine-protein kinase aurora-A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	44,772 Da
Chromosome Location	Chromosome: 2; NC_000068.7 (172356196..172370506, complement). Location: 2 H3; 2 100.0 cM
3D Structure	ModBase 3D Structure for P97477
Immunogen	Mouse Aurka antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 92-120 amino acids from the N-terminal region of Mouse Aurka.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-Aurka antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Aurka antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Aurka antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Aurka antibody	Contributes to the regulation of cell cycle progression. Required for normal mitosis. Associates with the centrosome and the spindle microtubules during mitosis and functions in centrosome maturation, spindle assembly, maintenance of spindle bipolarity, centrosome separation and mitotic checkpoint control. Phosphorylates numerous target proteins, including ARHGEF2, BRCA1, KIF2A, NDEL1, PARD3, PLK1 and BORA. Regulates KIF2A tubulin depolymerase activity (By similarity). Required for normal axon formation. Plays a role in microtubule remodeling during neurite extension. Important for microtubule formation and/or stabilization.

Product References and Citations for anti-Aurka antibody	Kinzel, D., et al. Dev. Cell 19(1):66-77(2010). Van Horn, R.D., et al. J. Biol. Chem. 285(28):21849-21857(2010). Mori, D., et al. Nat. Cell Biol. 11(9):1057-1068(2009). Li, C.C., et al. Mol. Cancer Res. 7(5):678-688(2009). Tseng, Y.S., et al. BMC Cancer 9, 435 (2009).
Other Notes	Small volumes of anti-Aurka antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Aurka purchase	MBS6276856 is an antibody targeting Aurka. Also known as Aurka, NT (Aurka, Aik, Airk, Ark1, Aura, Ayk1, Btak, Iak1, Stk15, Stk6, Aurora kinase A, Aurora 2, Aurora family kinase 1, Aurora/IPL1-related kinase 1, Ipl1-and aurora-related kinase 1, Serine/threonine-protein kinase 6, Serine/threonine-protein kinase A. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Aurka antibody
Mouse Aurka Antibody (N-term) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the Aurka antibody detected the Aurka protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Aurka. It may not necessarily be applicable to this product.

NCBI GI #	46358064
NCBI GeneID	20878
NCBI Accession #	NP_035627.1
UniProt Primary Accession #	P97477
UniProt Secondary Accession #	O35624; Q8C3H8; Q91YU4
UniProt Related Accession #	P97477
GenBank Nucleotide #	NM_011497.3
NCBI Official Full Name	aurora kinase A
NCBI Official Synonym Full Names	aurora kinase A
NCBI Official Symbol	Aurka
NCBI Official Synonym Symbols	IAK; Ark1; Ayk1; IAK1; Stk6; AIRK1; AU019385; AW539821; Aurora-A
UniProt Protein Name	Aurora kinase A
UniProt Synonym Protein Names	Aurora 2; Aurora family kinase 1; Aurora/IPL1-related kinase 1; ARK-1; Aurora-related kinase 1; Ipl1- and aurora-related kinase 1; Serine/threonine-protein kinase 6; Serine/threonine-protein kinase Ayk1; Serine/threonine-protein kinase aurora-A
Protein Family	Aurora kinase
UniProt Gene Name	Aurka
UniProt Synonym Gene Names	Aik; Airk; Ark1; Aura; Ayk1; Btak; Iak1; Stk15; Stk6; ARK-1; Aurora-related kinase 1

UniProt Entry Name	AURKA_MOUSE
NCBI Protein Information	aurora kinase A; ARK-1; aurora 2; 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 6; serine/threonine-protein kinase Ayk
UniProt Comments for Aurka	AurA: a member of the AUR family of kinases. A cell cycle-regulated serine/threonine protein kinase that is overexpressed in many tumor cell lines. Regulated by phosphorylation-dependent proteasomal degradation. Localized to mitotic centrosomes and spindle microtubules and is required for centrosome maturation. Loss of Aurora A leads to defective mitotic spindles and gross errors in chromosome segregation. Required for centrosome duplication and chromosome segregation. Overexpression in culture drives transformation and aneuploidy, and negatively regulates p53. Amplified or overexpressed in many tumors or cell lines. Found as a skin tumor susceptibility gene in mouse, and a human SNP in a degradation domain is weakly cancer-associated and undergoes allele-specific amplification. Inhibitors: VX-680, ZM447439, Hesperadin, SNS-595. Protein type: Kinase, protein; Oncoprotein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, Other; EC 2.7.11.1; Other group; AUR family Cellular Component: germinal vesicle; centrosome; microtubule; pronucleus; spindle pole centrosome; axon hillock; microtubule cytoskeleton; cytoskeleton; spindle microtubule; perinuclear region of cytoplasm; cytoplasm; microtubule organizing center; spindle; spindle midzone; nucleus; condensed nuclear chromosome, pericentric region Molecular Function: transferase activity; protein serine/threonine kinase activity; protein binding; ubiquitin protein ligase binding; transferase activity, transferring phosphorus-containing groups; protein serine/threonine/tyrosine kinase activity; nucleotide binding; histone serine kinase activity; kinase activity; protein kinase binding; ATP binding; protein kinase activity Biological Process: spindle stabilization; meiosis; mitosis; regulation of protein stability; microtubule cytoskeleton organization and biogenesis; cell cycle; regulation of cytokinesis; protein amino acid phosphorylation; mitotic centrosome separation; mitotic spindle organization and biogenesis; cell projection organization and biogenesis; centrosome localization; cell division; centrosome organization and biogenesis; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; mitotic cell cycle; negative regulation of protein binding; phosphorylation; spindle assembly involved in female meiosis I; meiotic spindle organization and biogenesis; negative regulation of apoptosis; anterior/posterior axis specification
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