AXL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Axl, Polyclonal Antibody
Full Product Name	Axl (phospho-Tyr702) rabbit pAb
Product Gene Name	anti-Axl antibody
Product Synonym Gene Name	AURKA; AIK; AIRK1; ARK1; AURA; AYK1; BTAK; IAK1; STK15; STK6
Product Synonym Names	Aurora kinase A (EC 2.7.11.1)(Aurora 2)(Aurora/IPL1-related kinase 1)(ARK-1)(Aurora-related kinase 1)(hARK1)(Breast tumor-amplified kinase)(Serine/threonine-protein kinase 15)(Serine/threonine-protein kinase 6)(Serine/threonine-protein kinase aurora-A)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Preparation and Storage	Store at -20 degree C for ~1 year
Molecular Weight	45,809 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (54944445..54967351, complement). Location: 20q13
OMIM	603072
3D Structure	ModBase 3D Structure for O14965
Product Categories/Family for anti-Axl antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Axl antibody	Western Blot (WB)
Application Notes for anti-Axl antibody	WB: 1:1000-2000
Related Product Information for anti-Axl antibody	aurora kinase A (AURKA) Homo sapiens 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. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of anti-Axl 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 Axl purchase	MBS8599925 is an antibody targeting Axl. Also known as Axl (phospho-Tyr702) rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	38327562
NCBI GeneID	6790
NCBI Accession #	NP_003591.2
UniProt Primary Accession #	O14965
UniProt Secondary Accession #	O60445; O75873; Q9BQD6; Q9UPG5; E1P5F9
UniProt Related Accession #	O14965
GenBank Nucleotide #	NM_003600.2
NCBI Official Full Name	aurora kinase A
NCBI Official Synonym Full Names	aurora kinase A
NCBI Official Symbol	AURKA
NCBI Official Synonym Symbols	AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; AURORA2; PPP1R47
UniProt Protein Name	Aurora kinase A
UniProt Synonym Protein Names	Aurora 2; Aurora/IPL1-related kinase 1; ARK-1; Aurora-related kinase 1; hARK1; Breast tumor-amplified kinase; Serine/threonine-protein kinase 15; Serine/threonine-protein kinase 6; Serine/threonine-protein kinase aurora-A
Protein Family	Tyrosine-protein kinase receptor
UniProt Gene Name	AURKA
UniProt Synonym Gene Names	AIK; AIRK1; ARK1; AURA; AYK1; BTAK; IAK1; STK15; STK6; ARK-1; Aurora-related kinase 1; hARK1
UniProt Entry Name	AURKA_HUMAN
NCBI Protein Information	aurora kinase A; ARK-1; hARK1; aurora 2; Aurora-A kinase; IPL1-related kinase; aurora-related kinase 1; aurora/IPL1-like kinase; serine/threonine kinase 6; aurora/IPL1-related kinase 1; breast tumor-amplified kinase; breast-tumor-amplified kinase; serine/
NCBI Summary for Axl	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. [provided by RefSeq, Jul 2008]

UniProt Comments for Axl	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: Protein kinase, Other; Kinase, protein; Oncoprotein; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Other group; AUR family Chromosomal Location of Human Ortholog: 20q13 Cellular Component: germinal vesicle; centrosome; pronucleus; spindle pole centrosome; cytosol; microtubule cytoskeleton; axon hillock; perinuclear region of cytoplasm; spindle microtubule; spindle; spindle midzone; midbody; nucleus; condensed nuclear chromosome, pericentric region Molecular Function: protein serine/threonine kinase activity; protein binding; ubiquitin protein ligase binding; protein serine/threonine/tyrosine kinase activity; histone serine kinase activity; protein kinase binding; ATP binding; protein kinase activity Biological Process: spindle stabilization; mitosis; regulation of centrosome cycle; positive regulation of mitosis; protein amino acid autophosphorylation; regulation of protein stability; regulation of cytokinesis; protein amino acid phosphorylation; mitotic centrosome separation; mitotic spindle organization and biogenesis; centrosome localization; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; cell division; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; mitotic cell cycle; G2/M transition of mitotic cell cycle; negative regulation of protein binding; spindle assembly involved in female meiosis I; negative regulation of apoptosis; anterior/posterior axis specification Disease: Colorectal Cancer
Research Articles on Axl	**1.** Aurora A kinase expression increases in clear cells kidney carcinoma.
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