AurB/C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AurB/C, Polyclonal Antibody
Full Product Name	AurB/C Antibody
Product Gene Name	anti-AurB/C antibody
Product Synonym Gene Name	AURKC
Product Synonym Names	;AURKC; AIE 2; Aie1; AIE2; AIK 3; AIK3; ARK 3; ARK-3; ARK3; Aur C; AurC; Aurkc; AURKC_HUMAN; aurora 3; Aurora C; Aurora kinase C; aurora related kinase 3; Aurora-related kinase 3; Aurora/Ipl1 related kinase 3; Aurora/Ipl1-related kinase 3; Aurora/Ipl1/Eg2 protein 2; EC 2.7.11.1; Serine threonine protein kinase 13; serine/threonine kinase 13 (aurora/IPL1 like); serine/threonine protein kinase aurora C; Serine/threonine-protein kinase 13; Serine/threonine-protein kinase aurora-C; SPGF5; STK13
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Concentration	1mg/ml (lot specific)
Specificity	AurB/C Antibody detects endogenous levels of total AurB/C. Tissue Specificity: Isoform 1 and isoform 2 are expressed in testis. Elevated expression levels were seen only in a subset of cancer cell lines such as Hep-G2, Huh-7 and HeLa. Expression is maximum at M phase.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	AurB/C peptide (MBS9617614) is used for blocking the activity of AurB/C antibody (MBS9613534)
Molecular Weight	309
Chromosome Location	Chromosome: 19; NC_000019.9 (57741750..57746916). Location: 19q13.43
OMIM	243060
3D Structure	ModBase 3D Structure for Q9UQB9
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human AurB/C.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Component of the chromosomal passenger complex (CPC) composed of at least BIRC5/survivin, CDCA8/borealin, INCENP, AURKB or AURKC; predominantly independent AURKB- and AURKC-containing complexes exist; in the complex interacts directly with BIRC5/survivin and INCENP. Interacts with TACC1.
Similarity	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily.

Subcellular Location	Nucleus. Chromosome. Chromosome>Centromere. Cytoplasm>Cytoskeleton>Spindle. Note: Distributes in the condensed chromosomes during prophase to metaphase. After entering anaphase, there is a dissociation from separated chromosomes and a redistribution to midzone microtubules, and finally remains in the midbody during cytokinesis.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AurB/C antibody	Peptide ELISA (EIA)
Application Notes for anti-AurB/C antibody	Peptide ELISA: 1:20,000-1:40,000
Related Product Information for anti-AurB/C antibody	Serine/threonine-protein kinase component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Plays also a role in meiosis and more particularly in spermatogenesis. Has redundant cellular functions with AURKB and can rescue an AURKB knockdown. Like AURKB, AURKC phosphorylates histone H3 at 'Ser-10' and 'Ser-28'. AURKC phosphorylates the CPC complex subunits BIRC5/survivin and INCENP leading to increased AURKC activity. Phosphorylates TACC1, another protein involved in cell division, at 'Ser-228'.
Other Notes	Small volumes of anti-AurB/C 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 AurB/C purchase	MBS9613534 is an antibody targeting AurB/C. Also known as AurB/C Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	62865639
NCBI GeneID	6795
NCBI Accession #	NP_001015878.1
UniProt Primary Accession #	Q9UQB9
UniProt Secondary Accession #	O60681; O75442; Q6AZY8; Q6DLZ0; Q9UPK5
UniProt Related Accession #	Q9UQB9
GenBank Nucleotide #	NM_001015878.1
NCBI Official Full Name	aurora kinase C isoform 1
NCBI Official Synonym Full Names	aurora kinase C
NCBI Official Symbol	AURKC
NCBI Official Synonym Symbols	AIE2; AIK3; ARK3; AurC; SPGF5; STK13; aurora-C
UniProt Protein Name	Aurora kinase C
UniProt Synonym Protein Names	Aurora 3; Aurora/IPL1-related kinase 3; ARK-3; Aurora-related kinase 3; Aurora/IPL1/Eg2 protein 2; Serine/threonine-protein kinase 13; Serine/threonine-protein kinase aurora-C
UniProt Gene Name	AURKC
UniProt Synonym Gene Names	AIE2; AIK3; AIRK3; ARK3; STK13; ARK-3
UniProt Entry Name	AURKC_HUMAN
NCBI Protein Information	aurora kinase C; ARK-3; aurora 3; aurora-related kinase 3; aurora/IPL1/EG2 protein 2; aurora/IPL1-related kinase 3; serine/threonine-protein kinase 13; serine/threonine-protein kinase aurora-C; serine/threonine kinase 13 (aurora/IPL1-like)

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