

Rabbit AURKB Polyclonal Antibody | anti-AurB antibody

AurB Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA267899	Rabbit	Human; Mouse; Rat; Monkey	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AURKB; Polyclonal Antibody; AurB Antibody; AIK2; AIM1; AIRK2; ARK2; STK1; STK12;STK5;Aurora kinase B; Aurora 1; Auroraand IPL1-like midbody-associated protein 1; AIM-1; Aurora/IPL1-related kinase 2; ARK-2; Aurora-related kinase 2; STK-1; Serine/threonine-protein kinase 12; anti-AurB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human; Mouse; Rat; Monkey
Clonality	Polyclonal
Isotype	IgG
Specificity	ARK-2 Polyclonal Antibody detects endogenous levels of ARK-2 protein.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml (varies by lot)
Applicable Applications for anti-AurB antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	The antiserum was produced against synthesized peptide derived from human AurB. AA range: 198-247
Function	Catalytic activity: ATP + a protein = ADP + a phosphoprotein., cofactor: Magnesium., disease: Disruptive regulation of expression is a possible mechanism of the perturbation of chromosomal integrity in cancer cells through its dominant-negative effect on cytokinesis.,function: May be directly involved in regulating the cleavage of polar spindle microtubules and is a key regulator for the onset of cytokinesis during mitosis. 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. Phosphorylates 'Ser-10' and 'Ser-28' of histone H3 during mitosis., similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily.
Subcellular Location	Nucleus. Chromosome. Chromosome, centromere. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle . Midbody . Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis (PubMed: 20929775). Colocalized with gamma tubulin in the midbody (PubMed: 17726514). Proper localization of the active, Thr-232-phosphorylated form during metaphase may be dependent upon interaction with SPDYC (PubMed: 20605920). Colocalized with SIRT2 during cytokinesis with the midbody (PubMed: 17726514). Localization (and probably targeting of the CPC) to the inner centromere occurs predominantly in regions with overlapping mitosis-specific histone phosphorylations H3pT3 and H2ApT12.
Expression	High level expression seen in the thymus. It is also expressed in the spleen, lung, testis, colon, placenta and fetal liver. Expressed during S and G2/M phase and expression is up-regulated in cancer cells during M phase.; [Isoform 3]: Not expressed in normal liver, high expression in metastatic liver.
Preparation and Storage	-15°C to -25°C/1 year(Do not lower than -25°C)

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells, using AurB Antibody. The picture on the right is blocked with the synthesized peptide.



WB (Western Blot)

Western Blot analysis of COS7 cells using ARK-2 Polyclonal Antibody cells nucleus extracted by Minute Cytoplasmic and Nuclear Fractionation kit.

ADDITIONAL INFORMATION

Related Product Information for anti-AurB antibody

This gene encodes a member of the aurora kinase subfamily of serine/threonine kinases. The genes encoding the other two members of this subfamily are located on chromosomes 19 and 20. These kinases participate in the regulation of alignment and segregation of chromosomes during mitosis and meiosis through association with microtubules. A pseudogene of this gene is located on chromosome 8. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2015]

NCBI AND UNIPROT INFORMATION

NCBI GI #	378786658
NCBI GeneID	9212
NCBI Accession #	NP_001243763.1
NCBI GenBank Nucleotide #	NM_001256834.2
UniProt Accession #	Q96GD4; O14630; O60446; O95083; Q96DV5; Q9UQ46; B4DNM4; C7G533; C7G534; C7G535; D3DTR4; J9JID1
Molecular Weight	Observed Band(KD): 39kD
NCBI Official Full Name	aurora kinase B isoform 2
NCBI Official Synonym Full Names	aurora kinase B
NCBI Official Symbol	AURKB
NCBI Official Synonym Symbols	AIK2; AIM1; ARK2; AurB; IPL1; STK5; AIM-1; ARK-2; STK-1; STK12; PPP1R48; aurkb-sv1; aurkb-sv2
NCBI Protein Information	aurora kinase B
UniProt Protein Name	Aurora kinase B
UniProt Gene Name	AURKB
UniProt Synonym Gene Names	AIK2; AIM1; AIRK2; ARK2; STK1; STK12; STK5; AIM-1; ARK-2; Aurora-related kinase 2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.