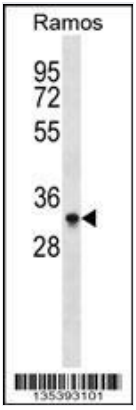
AURKB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Aurkb, Polyclonal Antibody
Full Product Name	Aurkb, NT (Aurkb, Aik2, Aim1, Airk2, Ark2, Stk1, Stk12, Stk5, Aurora kinase B, Aurora 1, Aurora-and IPL1-like midbody-associated protein 1, Aurora/IPL1-related kinase 2, STK-1, Serine/threonine-protein kinase 12, Serine/threonine-protein kinase 5, Serine/
Product Gene Name	anti-Aurkb antibody
Product Synonym Names	Aurkb; Aik2; Aim1; Airk2; Ark2; Stk1; Stk12; Stk5; Aurora kinase B; Aurora 1; Aurora-and IPL1-like midbody-associated protein 1; Aurora/IPL1-related kinase 2; STK-1; Serine/threonine-protein kinase 12; Serine/threonine-protein kinase 5; Serine/threonine-protein kinase aurora-B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
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	39,384 Da
3D Structure	ModBase 3D Structure for O70126
Immunogen	Mouse Aurkb antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 83-111 amino acids from the N-terminal region of human Mouse Aurkb.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-Aurkb antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Aurkb antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Aurkb antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Aurkb antibody	Aurkb 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 (By similarity). Phosphorylates 'Ser-10' and 'Ser-28' of histone H3 during mitosis. Required for kinetochore localization of BUB1 and SGOL1 (By similarity).
Other Notes	Small volumes of anti-Aurkb 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 Aurkb purchase	MBS6276867 is an antibody targeting Aurkb. Also known as Aurkb, NT (Aurkb, Aik2, Aim1, Airk2, Ark2, Stk1, Stk12, Stk5, Aurora kinase B, Aurora 1, Aurora-and IPL1-like midbody-associated protein 1, Aurora/IPL1-related kinase 2, STK-1, Serine/threonine-protein kinase 12, Serine/threonine-protein kinase 5, Serine/. Reactive in Human. Host: Rabbit.



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

ADDITIONAL DETAILS

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

NCBI GI #	341940262
NCBI GeneID	20877
NCBI Accession #	O70126.2
UniProt Primary Accession #	O70126
UniProt Secondary Accession #	Q61882; Q8C6C1
UniProt Related Accession #	O70126
NCBI Official Full Name	Aurora kinase B
NCBI Official Synonym Full Names	aurora kinase B
NCBI Official Symbol	Aurkb
NCBI Official Synonym Symbols	Aik2; Aim1; Ark2; AurB; IPL1; Stk5; AIM-1; AIRK2; STK-1; Stk12; AL022959
UniProt Protein Name	Aurora kinase B
UniProt Synonym Protein Names	Aurora 1; Aurora- and IPL1-like midbody-associated protein 1; Aurora/IPL1-related kinase 2; ARK-2; Aurora-related kinase 2; STK-1; Serine/threonine-protein kinase 12; Serine/threonine-protein kinase 5; Serine/threonine-protein kinase aurora-B
Protein Family	Aurora kinase
UniProt Gene Name	Aurkb
UniProt Synonym Gene Names	Aik2; Aim1; Airk2; Ark2; Stk1; Stk12; Stk5; ARK-2; Aurora-related kinase 2
UniProt Entry Name	AURKB_MOUSE
NCBI Protein Information	aurora kinase B; ARK-2; aurora 1; aurora B; aurora-related kinase 2; serine/threonine kinase 5; serine/threonine kinase 12; aurora/IPL1-related kinase 2; serine/threonine-protein kinase 5; serine/threonine-protein kinase 12; serine/threonine-protein kinas

UniProt Comments for Aurkb	AurB: a member of the AUR family of kinases. May be directly involved in regulating the cleavage of polar spindle microtubules and is a key regulator for the onset of cytokinesis during mitosis. Expressed during S and G2/M phase and expression is upregulated in cancer cells during M phase. Localized to the midzone of central spindle in late anaphase and concentrated into the midbody in telophase and cytokinesis. Colocalizes with gamma tubulin in the mid-body. 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. Overexpressed in colorectal and other cancer cell lines and thought to cause aneuploidy via histone phosphorylation. Protein type: Kinase, protein; EC 2.7.11.1; Protein kinase, Other; Protein kinase, Ser/Thr (non-receptor); Other group; AUR family Cellular Component: spindle pole centrosome; chromosome; kinetochore; cytoskeleton; spindle microtubule; cytoplasm; spindle; midbody; spindle midzone; nucleus; chromosome, pericentric region; condensed nuclear chromosome, pericentric region; chromocenter Molecular Function: transferase activity; protein serine/threonine kinase activity; protein binding; metal ion binding; transferase activity, transferring phosphorus-containing groups; nucleotide binding; protein serine/threonine/tyrosine kinase activity; histone serine kinase activity; kinase activity; ATP binding; protein kinase activity Biological Process: positive regulation of cytokinesis; spindle stabilization; mitosis; spindle checkpoint; spindle midzone assembly involved in mitosis; negative regulation of transcription from RNA polymerase II promoter; cell cycle; regulation of cytokinesis; protein amino acid phosphorylation; mitotic spindle organization and biogenesis; cell division; negative regulation of protein binding; phosphorylation; negative regulation of B cell apoptosis
Research Articles on Aurkb	**1.** reduced accumulation of Aurora B at the inner centromere region in cells lacking Pds5B impairs its error correction function, promoting chromosome mis-segregation and aneuploidy
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/aurkb/6276867