AURKB (phospho T232) polyclonal antibody

Catalog # PAB10026 Size 100 ug

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of AURKB.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding T232 of human AURKB.
Host	Rabbit
Reactivity	Bovine, Chimpanzee, Dog, Human, Mouse, Pig, Rat
Specificity	Reactivity occurs against human Aurora Kinase B pT232 protein and This antibody is specific to the phosphorylated form of the protein. Reactivity with non-phosphorylated human Aurora Kinase B is mi nimal by ELISA. No reaction is expected against Aurora Kinase A.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:10000-1:50000) Western Blot (1:250-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunofluorescence
- Enzyme-linked Immunoabsorbent Assay



Gene Info — AURKB

Entrez GenelD	<u>9212</u>
Protein Accession#	<u>Q96GD4:NP_004208</u>
Gene Name	AURKB
Gene Alias	AIK2, AIM-1, AIM1, ARK2, AurB, IPL1, STK12, STK5
Gene Description	aurora kinase B
Omim ID	<u>604970</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Chromosomal segregation during mitosis as well as meiosis is regulated by kinases and phosph atases. The Aurora kinases associate with microtubules during chromosome movement and segr egation. Aurora kinase B localizes to microtubules near kinetochores, specifically to the specializ ed microtubules called K-fibers, and Aurora kinase A (MIM 603072) localizes to centrosomes (La mpson et al., 2004 [PubMed 14767480]).[supplied by OMIM
Other Designations	aurora-1 aurora-B serine/threonine kinase 12

Publication Reference

<u>Relocation of Aurora B from centromeres to the central spindle at the metaphase to anaphase transition</u> requires MKIp2.

Gruneberg U, Neef R, Honda R, Nigg EA, Barr FA.

The Journal of Cell Biology 2004 Jul; 166(2):167.

• <u>Cell cycle-dependent regulation of the human aurora B promoter.</u>

Kimura M, Uchida C, Takano Y, Kitagawa M, Okano Y.

Biochemical and Biophysical Research Communications 2004 Apr; 316(3):930.

<u>Autophosphorylation of a newly identified site of Aurora-B is indispensable for cytokinesis.</u>

Yasui Y, Urano T, Kawajiri A, Nagata K, Tatsuka M, Saya H, Furukawa K, Takahashi T, Izawa I, Inagaki M. The Journal of Biological Chemistry 2004 Jan; 279(13):12997.



Disease

- Brain Neoplasms
- Genetic Predisposition to Disease
- Glioblastoma