

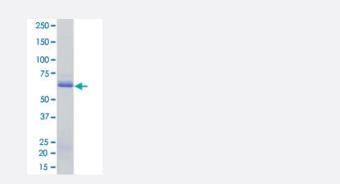


Full-Length

AURKB/INCENP (Human) Recombinant Protein

Catalog # P5781 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification	
Product Description	Human AURKB (Q96GD4, 1 a.a 344 a.a.) full length recombinant protein with GST tag co-express ed with His-tagged INCENP (AAU04398.1, 803 a.a 918 a.a.) full length recombinant protein in Bac ulovirus infected Sf21 cells.
Theoretical MW (kDa)	66
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	86 % by SDS-PAGE/CBB staining

er er	ne activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluoresce ce-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates w re separated and detected by LabChip™3000. ubstrate : Kemptide. ATP: 100 μM.
Quality Control Testing S	DS-PAGE Stained with Coomassie Blue
Storage Buffer In	50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)
..	tore at -80°C. liquot to avoid repeated freezing and thawing.
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Applications

- Functional Study
- SDS-PAGE

Gene Info — INCENP	
Entrez GenelD	<u>3619</u>
Protein Accession#	<u>Q96GD4</u>
Gene Name	INCENP
Gene Alias	FLJ31633, MGC111393
Gene Description	inner centromere protein antigens 135/155kDa
Omim ID	<u>604411</u>
Gene Ontology	Hyperlink

😵 Abnova	Product Information
Gene Summary	In mammalian cells, 2 broad groups of centromere-interacting proteins have been described: con stitutively binding centromere proteins and 'passenger,' or transiently interacting, proteins (review ed by Choo, 1997). The constitutive proteins include CENPA (centromere protein A; MIM 117139), CENPB (MIM 117140), CENPC1 (MIM 117141), and CENPD (MIM 117142). The term 'passen ger proteins' encompasses a broad collection of proteins that localize to the centromere during sp ecific stages of the cell cycle (Earnshaw and Mackay, 1994 [PubMed 8088460]). These include C ENPE (MIM 117143); MCAK (MIM 604538); KID (MIM 603213); cytoplasmic dynein (e.g., MIM 60 0112); CliPs (e.g., MIM 179838); and CENPF/mitosin (MIM 600236). The inner centromere proteins ins (INCENPs) (Earnshaw and Cooke, 1991 [PubMed 1860899]), the initial members of the pass enger protein group, display a broad localization along chromosomes in the early stages of mitosi s but gradually become concentrated at centromeres as the cell cycle progresses into mid-metap hase. During telophase, the proteins are located within the midbody in the intercellular bridge, wh ere they are discarded after cytokinesis (Cutts et al., 1999 [PubMed 10369859]).[supplied by OMI M
Other Designations	binds and activates aurora-B and -C in vivo and in vitro chromosomal passenger protein inner cen tromere protein INCENP inner centromere protein antigens (135kD, 155kD)

Gene Info — AURKB

Entrez GenelD	<u>9212</u>
Protein Accession#	<u>Q96GD4</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	Hyperlink
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

Disease

- Brain Neoplasms
- Genetic Predisposition to Disease



Product Information

Glioblastoma