

AURKB Human

Description:AURKB Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 364 amino acids (1-344) and having a molecular mass of 41.4kDa. AURKB is fused to 20 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:PKPS-362

For research use only.

Synonyms:Serine/threonine-protein kinase 12, Aurora kinase B, Serine/threonine-protein kinase aurora-B, Aurora- and Ipl1-like midbody-associated protein 1, Aurora/IPL1-related kinase 2, Aurora-related kinase 2, AIM-1, ARK-2, STK-1, AURKB, AIK2, AIM1, ARK2, STK12,

Source:Escherichia Coli.

Physical Appearance:Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MAQKENSYPW PYGRQTAPSG
LSTLPQRVLR KEPVTPSALV LMSRSNVQPT AAPGQKVMEN SSGTPDILTR HFTIDDFEIG
RPLGKGKFGN VYLAREKKSH FIVALKVLFK SQIEKEGVEH QLRREIEIQA HLHPNLR
YNYFYDRRRI YLILEYAPRG ELYKELQKSC TFDEQRTATI MEELADALMY CHGKKVIHRD
IKPENLLLGL KG

Purity:Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The AURKB solution containing 20mM Tris-HCl buffer (pH8.0), 0.5mM DTT, 20% glycerol, 0.1mM EDTA, 0.1mM EGTA, 0.1M NaCl and 0.1mM PMSF.

Stability:

AURKB although stable at 4°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Aurora Kinase B (AURKB) belongs to a family of mitotic serine/threonine kinases. AURKB connects with chromosomes for the period of prophase prior to relocalizing to the spindle at anaphase. AURKB localizes to microtubules near kinetochores, specifically to the specialized microtubules called K-fibers. AURKB controls chromosome segregation through the control of microtubule-kinetochore attachment and cytokinesis. AURKB is required for kinetochore localization of BUB1 and SGOL1. AURKB expression during the G2/M phase transition is firmly coordinated with histone H3 phosphorylation, while overexpression is seen in many kinds of cancers. AURKB phosphorylates 'Ser-10' and 'Ser-28' of histone H3 during mitosis. AURKB is a component of the CPC (chromosomal passenger complex), which is a complex that acts as a key regulator of mitosis. High level expression of AURKB is seen in the thymus, which is also expressed in the spleen, lung, testis, colon, placenta and fetal liver. AURKB is expressed during S and G2/M phase and expression is up-regulated in cancer cells during M phase.

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