

Aurora B Rabbit mAb

Catalog No: #48937



Package Size: #48937-1 50ul #48937-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

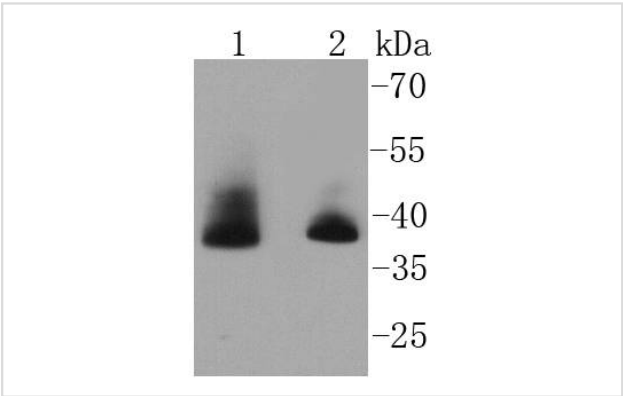
Description

Product Name	Aurora B Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC55-08
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	AIK2 antibody AIM-1 antibody AIM1 antibody ARK-2 antibody ARK2 antibody AurB antibody AURKB antibody AURKB_HUMAN antibody Aurora 1 antibody Aurora and Ipl1 like midbody associated protein 1 antibody Aurora kinase B antibody Aurora related kinase 2 antibody Aurora- and Ipl1-like midbody-associated protein 1 antibody Aurora-B antibody Aurora-related kinase 2 antibody Aurora/IPL1 related kinase 2 antibody Aurora/IPL1-related kinase 2 antibody IPL1 antibody PPP1R48 antibody Protein phosphatase 1 regulatory subunit 48 antibody Serine/theronine kinase 12 antibody Serine/threonine protein kinase 12 antibody Serine/threonine-protein kinase 12 antibody Serine/threonine-protein kinase aurora-B antibody STK-1 antibody STK1 antibody STK12 antibody STK5 antibody
Accession No.	Swiss-Prot#:Q96GD4
Calculated MW	39 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

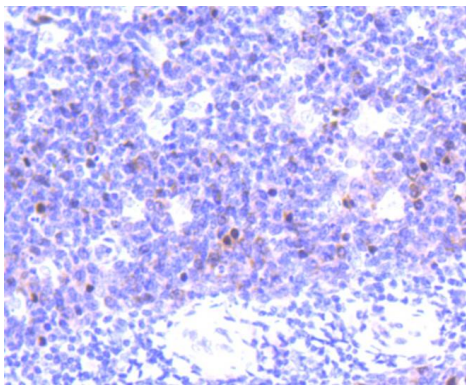
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200ICC: 1:50-1:200

Images



Western blot analysis of Aurora B on different lysates using anti-Aurora B antibody at 1/1,000 dilution. Positive control:
Lane 1: Hela Lane 2: MCF-7



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Aurora B antibody. Counter stained with hematoxylin.

Background

Aurora related kinase-1 (ARK-1, STK15, Aurora2, Aik1) and -2 (ARK-2, STK12, Aurora1) are centrosome-associated serine/ threonine kinases that regulate centrosome separation, bipolar spindle assembly, and chromosome segregation during mitosis. ARK-1 and -2 are expressed in the nucleus and localize to distinct portions of mitotic machinery such as the centrosome, spindle poles (ARK-1), and midbody (ARK-2) during mitosis. ARK-1 and -2 transcripts are present at high levels in human thymus and fetal liver. ARK-1 protein has elevated expression in colon carcinoma lines (HT-29, SNU-C2B, COLO 205, SW480, 837 and 948) and accumulates during metaphase in HeLa cells. ARK-2 protein levels are maximal during both S and G2/M phases, whereas ARK-1 protein is degraded after G2/M via the ubiquitin-proteasome pathway. ARK-2 has a unique genetic loci relative to ARK-1, suggesting that these two kinases, with oncogenic potential, have different roles in cell cycle progression.

References

1. Petsalaki E & Zachos G Clks 1, 2 and 4 prevent chromatin breakage by regulating the Aurora B-dependent abscission checkpoint. Nat Commun 7:11451 (2016).
2. Jiang J et al. Cardiac myosin binding protein C regulates postnatal myocyte cytokinesis. Proc Natl Acad Sci U S A 112:9046-51 (2015).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.