Product Name: **KD-Validated Aurora kinase B Recombinant Rabbit Monoclonal Antibody**
Catalog #: **KVAb01648**
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 39.3kDa

Antigen Information

Gene Name	AURKB
Alternative Names	AURKB; Aurora Kinase B; AIM-1; ARK2; STK5; PPP1R48; STK12; IPL1; AIK2; Protein Phosphatase 1, Regulatory Subunit 48; Serine/Threonine-Protein Kinase Aurora-B; Serine/Threonine-Protein Kinase 12; Serine/Threonine-Protein Kinase 5; Aurora/IPL1-Related Kinase; Serine/Threonine Kinase 12; Aurora-Related Kinase; EC 2.7.11.1; Aurora-B; Aurora-1; ARK-2; STK-1; AurB; AIM1; Aurora- And Ipl1-Like Midbody-Associated Protein 1 Homolog (Rat); Aurora- And Ipl1-Like Midbody-Associated Protein 1 Homolog; Aurora- And Ipl1-Like Midbody-Associated Protein 1; Aurora- And IPL1-Like Midbody-Associated Protein 1; Aurora Kinase B-Sv1; Aurora Kinase B-Sv2; Aurkb-Sv1; Aurkb-Sv2; EC 2.7.11; Aurora 1; AIRK2; Aik2; AURB; STK1
Gene ID	9212.0

SwissProt ID	Q96GD4
Immunogen	A synthesized peptide derived from human Aurora B

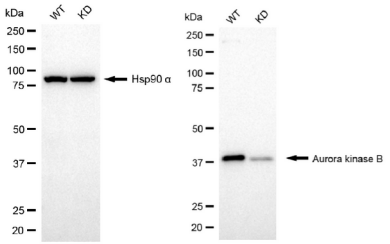
Background

This gene encodes a member of the aurora kinase subfamily of serine/threonine kinases. The genes encoding the other two members of this subfamily are located on chromosomes 19 and 20. These kinases participate in the regulation of alignment and segregation of chromosomes during mitosis and meiosis through association with microtubules. A pseudogene of this gene is located on chromosome 8. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2015]

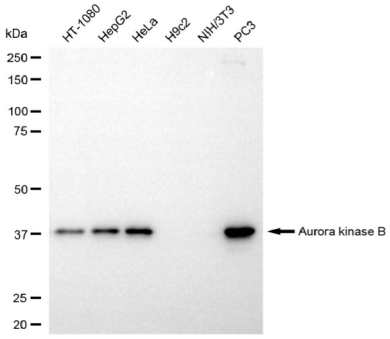
Research Area

Cell Biology,Epigenetics and Nuclear Signaling,Signal Transduction,Cancer

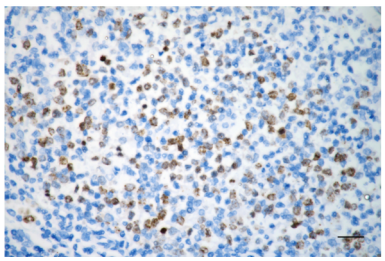
Image Data



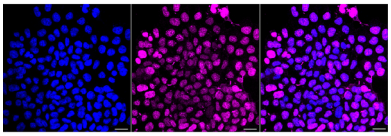
Western blotting analysis using aurora kinase B antibody (KVAb01648). Aurora kinase B expression in wild-type (WT) and aurora kinase B (AURKB) knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with aurora kinase B antibody (KVAb01648, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



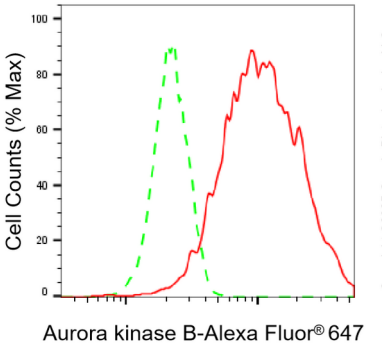
Western blotting analysis using aurora kinase B antibody (KVAb01648). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with aurora kinase B antibody (KVAb01648, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human tonsillitis using aurora kinase B antibody (KVAb01648, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HAP-1 cells with Aurora kinase B antibody (KVAb01648, 1:1,000). Nuclei were stained blue with DAPI; Aurora kinase B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of Aurora kinase B expression in HAP-1 cells using Aurora kinase B antibody (KVAb01648, 1:2,000). Green, isotype control; red, Aurora kinase B.