

Product Name: KD-Validated Kinesin Family Member 5B Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01325

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
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: 109.7kDa

Antigen Information

Gene Name	KIF5B KIF5B; Kinesin Family Member 5B; UKHC; KNS; Ubiquitous Kinesin Heavy Chain; KNS1;
Alternative Names	Conventional Kinesin Heavy Chain; Kinesin-1 Heavy Chain; Epididymis Secretory Protein Li 61; Kinesin 1 (110-120kD); Kinesin Heavy Chain; HEL-S-61; KINH
Gene ID	3799.0
SwissProt ID	P33176
Immunogen	A synthesized peptide derived from human KIF5B

Background

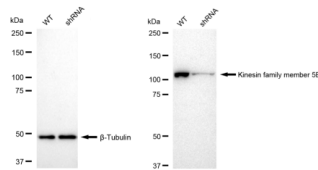
Enables identical protein binding activity; microtubule binding activity; and microtubule motor activity. Involved in several

processes, including natural killer cell mediated cytotoxicity; positive regulation of protein localization to plasma membrane; and vesicle transport along microtubule. Located in several cellular components, including centriolar satellite; cytosol; and nuclear membrane. [provided by Alliance of Genome Resources, Jul 2025]

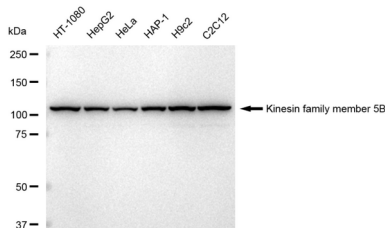
Research Area

Signal Transduction

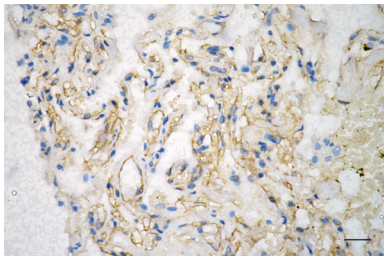
Image Data



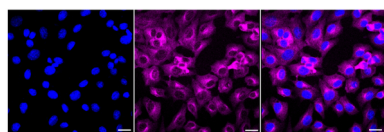
Western blotting analysis using Kinesin family member 5B antibody (KVA01325). Kinesin family member 5B expression in wild type (WT) and Kinesin family member 5B shRNA knockdown (KD) 293T cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Kinesin family member 5B antibody (KVA01325, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



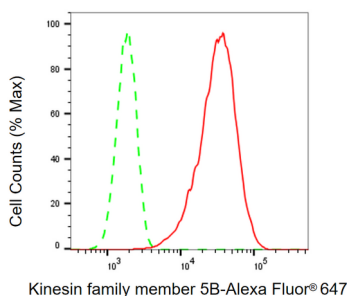
Western blotting analysis using Kinesin family member 5B antibody (KVA01325). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Kinesin family member 5B antibody (KVA01325, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human lung adenocarcinoma using kinesin family member 5B antibody (KVA01325, 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 C2C12 cells with Kinesin family member 5B antibody (KVA01325, 1:1,000). Nuclei were stained blue with DAPI; Kinesin family member 5B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Kinesin family member 5B expression in C2C12 cells using Kinesin family member 5B antibody (KVA01325, 1:2,000). Green, isotype control; red, Kinesin family member 5B.