

Datasheet for ABIN6719385
anti-KIF15 antibody (AA 1201-1388)



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Overview

Quantity:	100 µg
Target:	KIF15
Binding Specificity:	AA 1201-1388
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KIF15 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-KIF15 Antibody Picoband®
Immunogen:	E.coli-derived human KIF15 recombinant protein (Position: M1201-S1388).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-KIF15 Antibody Picoband® (ABIN6719385). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	KIF15
Alternative Name:	KIF15 (KIF15 Products)
Background:	Synonyms: Kinesin-like protein KIF15, Kinesin-like protein 2, hKLP2, Kinesin-like protein 7, Serologically defined breast cancer antigen NY-BR-62, KIF15, KLP2, KNSL7 Tissue Specificity: Expressed in testis, colon, thymus and in breast cancer. Background: Kinesin family member 15 is a protein that in humans is encoded by the KIF15 gene. It is mapped to 3p21.31. This gene encodes a motor protein that is part of the kinesin superfamily. KIF15 maintains half spindle separation by opposing forces generated by other motor proteins. KIF15 co-localizes with microtubules and actin filaments in both dividing cells and in postmitotic neurons. KIF15 (also known as Kinesin-12 and HKLP2) is a motor protein expressed in all cells during mitosis and in postmitotic neurons undergoing axon growth. KIF15 maintains bipolar microtubule spindle apparatus in dividing cells and shares redundant functions with KIF11. KIF15 is thought to promote spindle assembly by cross-linking and sliding along microtubules creating a separation between centrosomes. HeLa cells depleted of KIF11, with reduced microtubule dynamics, are able to form bipolar spindles from acentrosomal asters in a KIF15 dependent manner. Hence, inhibition of KIF15 function will be a vital therapeutic approach in cancer chemotherapy.
Molecular Weight:	150-160 kDa
Gene ID:	56992

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL Immunocytochemistry/Immunofluorescence, 5 µg/mL Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells ELISA, 0.1-0.5 µg/mL 1. Eskova, A., Knapp, B., Matelska, D., Reusing, S., Arjonen, A., Lisauskas, T., Pepperkok, R., Russell, R., Eils, R., Ivaska, J., Kaderali, L., Erfle, H., Starkuviene, V. An RNAi screen identifies KIF15 as a novel regulator of the endocytic trafficking of integrin. J. Cell Sci. 127: 2433-2447, 2014. 2. Tanenbaum, M. E., Macurek, L., Janssen, A., Geers, E. F., Alvarez-Fernandez, M., Medema, R. H. Kif15 cooperates with Eg5 to promote bipolar spindle assembly. Curr. Biol. 19: 1703-1711, 2009.
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin

Application Details

sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.