

KIF16b Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP15010A

Product Information

Application	WB, IHC-P, E
Primary Accession	Q96L93
Other Accession	B1AVY7 , NP_078980.3
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34439
Calculated MW	152011
Antigen Region	1-30

Additional Information

Gene ID	55614
Other Names	Kinesin-like protein KIF16B, Sorting nexin-23, KIF16B, C20orf23, KIAA1590, SNX23
Target/Specificity	This KIF16b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from human KIF16b.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KIF16b Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KIF16B
Synonyms	C20orf23, KIAA1590, SNX23
Function	Plus end-directed microtubule-dependent motor protein involved in

endosome transport and receptor recycling and degradation. Regulates the plus end motility of early endosomes and the balance between recycling and degradation of receptors such as EGF receptor (EGFR) and FGF receptor (FGFR). Regulates the Golgi to endosome transport of FGFR-containing vesicles during early development, a key process for developing basement membrane and epiblast and primitive endoderm lineages during early postimplantation development.

Cellular Location

Cytoplasm, cytoskeleton. Early endosome membrane. Cytoplasm. Cytoplasm, cytoskeleton, spindle. Note=It is unclear whether association with endosomes is mediated via phosphatidylinositol 3-phosphate (PtdIns(3)P)-binding or via its interaction with RAB14

Tissue Location

Primarily expressed in brain. Also present in kidney, liver, intestine, placenta, leukocytes, heart and skeletal muscle (at protein level).

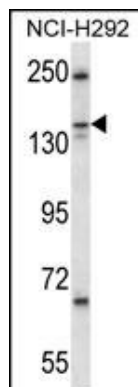
Background

KIF16b may be involved in several stages of intracellular trafficking. Probable microtubule-dependent motor protein (By similarity).

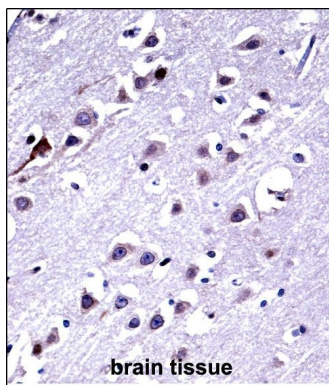
References

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Miki, H., et al. Trends Cell Biol. 15(9):467-476(2005)
Hoepfner, S., et al. Cell 121(3):437-450(2005)
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Images



KIF16b Antibody (Cat. #AP15010a) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the KIF16b antibody detected the KIF16b protein (arrow).



KIF16b Antibody (AP15010a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of KIF16b Antibody for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.