10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Kif5C-2 Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12055a

Product Information

Application	WB, IHC-P, E
Primary Accession	O60282
Other Accession	P28738, NP_004513.1
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB07180
Calculated MW	109495

Additional Information

Gene ID	3800
Other Names	Kinesin heavy chain isoform 5C, Kinesin heavy chain neuron-specific 2, KIF5C, KIAA0531, NKHC2
Target/Specificity	This KIF5C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from human KIF5C.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	Kif5C-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KIF5C
Synonyms	KIAA0531, NKHC2
Function	Microtubule-associated force-producing protein that may play a role in organelle transport. Has ATPase activity (By similarity). Involved in synaptic

	transmission (PubMed:24812067). Mediates dendritic trafficking of mRNAs (By similarity). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity).
Cellular Location	Cytoplasm, cytoskeleton. Cell projection, dendrite. Note=Abundant in distal regions of dendrites.
Tissue Location	Highest expression in brain, prostate and testis, and moderate expression in kidney, small intestine and ovary

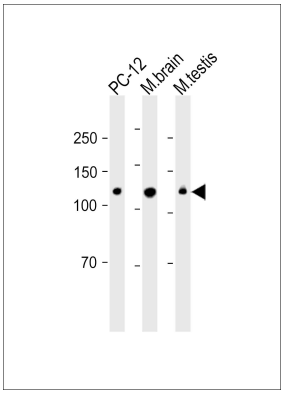
Background

Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport.

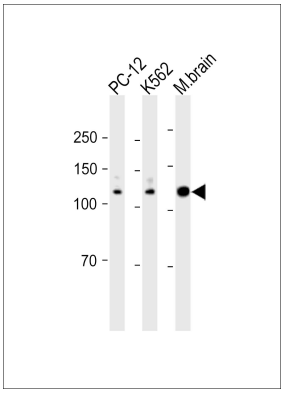
References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Wang, X., et al. Cell 136(1):163-174(2009)
Schafer, B., et al. Cell. Mol. Life Sci. 66(2):339-349(2009)
Schafer, B., et al. Biochem. Biophys. Res. Commun. 375(2):179-183(2008)
Cho, K.I., et al. Traffic 8(12):1722-1735(2007)

Images

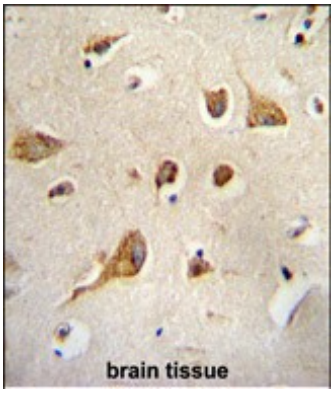


All lanes: Anti-Kif5C-2 Antibody at 1:2000 dilution Lane 1: PC-12 whole cell lysate Lane 2: Mouse brain lysate Lane 3: Mouse testis lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 110 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes: Anti-Kif5C-2 Antibody at 1:2000 dilution Lane 1: PC-12 whole cell lysate Lane 2: K562 whole cell lysate Lane 3: Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 110 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Kif5C-2 Antibody (Cat. #AP12055a)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 Kif5C-2 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'.