

KIF21A Rabbit pAb

KIF21A Rabbit pAb
Catalog # AP56533

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q7Z4S6
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	187179
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIF21A
Epitope Specificity	601-700/1674
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm > cytoskeleton.
DISEASE	Defects in KIF21A are a cause of congenital fibrosis of extraocular muscles type 1 (CFEOM1) [MIM:135700]. CFEOM encompasses several different inherited strabismus syndromes characterized by congenital restrictive ophthalmoplegia affecting extraocular muscles innervated by the oculomotor and/or trochlear nerves. CFEOM is characterized clinically by anchoring of the eyes in downward gaze, ptosis, and backward tilt of the head. CFEOM1 individuals show an absence of the superior division of the oculomotor nerve (cranial nerve III) and corresponding oculomotor subnuclei.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the KIF4 subfamily of kinesin-like motor proteins. The encoded protein is characterized by an N-terminal motor domain a coiled-coil stalk domain and a C-terminal WD-40 repeat domain. This protein may be involved in microtubule dependent transport. Mutations in this gene are the cause of congenital fibrosis of extraocular muscles-1. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Mar 2010]

Additional Information

Gene ID	55605
Other Names	Kinesin-like protein KIF21A, Kinesin-like protein KIF2, Renal carcinoma antigen NY-REN-62, KIF21A, KIAA1708, KIF2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
----------------	---

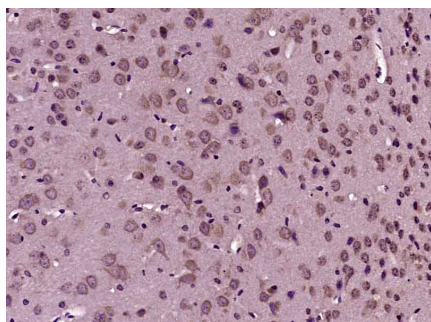
Protein Information

Name	KIF21A
Synonyms	KIAA1708, KIF2
Function	Processive microtubule plus-end directed motor protein involved in neuronal axon guidance. Is recruited by KANK1 to cortical microtubule stabilizing complexes (CMSCs) at focal adhesions (FAs) rims where it promotes microtubule capture and stability. Controls microtubule polymerization rate at axonal growth cones and suppresses microtubule growth without inducing microtubule disassembly once it reaches the cell cortex.
Cellular Location	Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:Q9QXL2}. Cytoplasm, cell cortex. Cell projection, axon. Cell projection, dendrite. Cell projection, growth cone

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIF21A) Polyclonal Antibody, Unconjugated (AP56533) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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