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Rabbit Anti-KIF21A antibody

SL17047R

Product Name:	KIF21A
Chinese Name:	驱动蛋白家族成员21A抗体
Alias:	CFEOM; CFEOM1; DKFZp779C159; FEOM; FEOM1; FEOM3A; Fibrosis of extraocular muscles congenital 1 autosomal dominant; Fibrosis of the extraocular muscles congenital 1; FLJ20052; KI21A_HUMAN; KIAA1708; KIF21A; Kinesin family member 21A; kinesin like protein KIF2; kinesin like protein KIF21A; Kinesin-like protein KIF2; Kinesin-like protein KIF21A; NY-REN-62 antigen; renal carcinoma antigen NY REN 62; Renal carcinoma antigen NY-REN-62.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	187kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human KIF21A:601-700/1674
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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]

Function:
Microtubule-binding motor protein probably involved in neuronal axonal transport. In vitro, has a plus-end directed motor activity.

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.

Similarity:
Belongs to the kinesin-like protein family.
Contains 1 kinesin-motor domain.
Contains 7 WD repeats.

SWISS:
Q7Z4S6

Gene ID:
55605

Database links:

Entrez Gene: 55605 Human

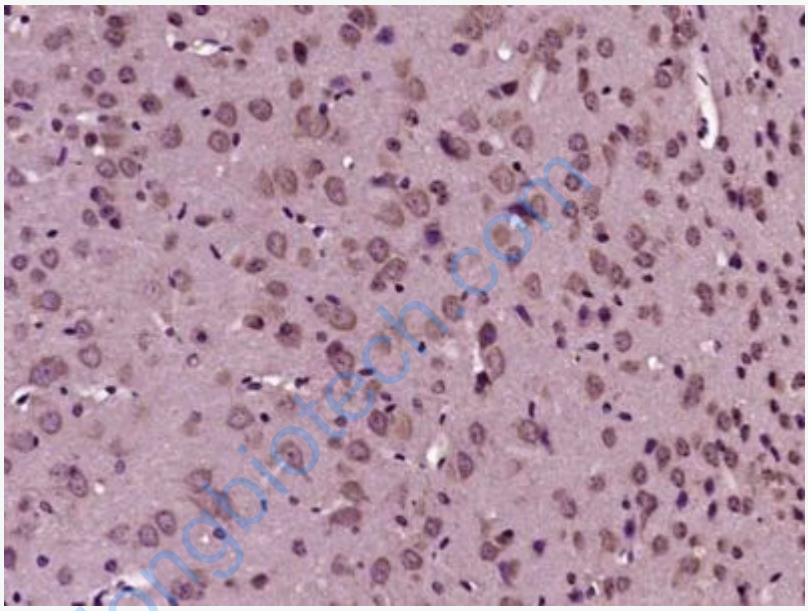
Entrez Gene: 16564 Mouse

Omim: 608283 Human

SwissProt: Q7Z4S6 Human

SwissProt: Q9QXL2 Mouse

Unigene: 374201 Human

	Unigene: 41379 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 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 (SL17047R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.