

KIF2A Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56537

Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession 000139

Reactivity Rat, Pig, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 79955
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human KIF2A

Epitope Specificity 611-706/706

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. Cytoplasm > cytoskeleton > centrosome. Cytoplasm >

cytoskeleton > spindle pole. Cytoplasm > cytoskeleton > spindle. Localized to the spindle microtubules and spindle poles from prophase to metaphase. Efficient targeting to spindle microtubules and spindle poles requires the kinase activity of PLK1. Recruited to mitotic spindles by interaction with

PSRC1.

SIMILARITY Belongs to the kinesin-like protein family. MCAK/KIF2 subfamily. Contains 1

kinesin-motor domain.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions The protein encoded by this gene is a plus end-directed motor required for

normal mitotic progression. The encoded protein is required for normal

spindle activity during mitosis and is necessary for normal brain

development. Several transcript variants encoding different isoforms have

been found for this gene. [provided by RefSeq, Sep 2011]

Additional Information

Gene ID 3796

Other Names Kinesin-like protein KIF2A, Kinesin-2, hK2, KIF2A, KIF2, KNS2

Dilution IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-

10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

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

Protein Information

Name KIF2A

Synonyms KIF2, KNS2

Function Plus end-directed microtubule-dependent motor required for normal brain

development. May regulate microtubule dynamics during axonal growth. Required for normal progression through mitosis. Required for normal congress of chromosomes at the metaphase plate. Required for normal spindle dynamics during mitosis. Promotes spindle turnover. Implicated in formation of bipolar mitotic spindles. Has microtubule depolymerization

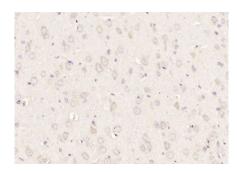
activity.

Cellular Location Cytoplasm, cytoskeleton, microtubule organizing center,

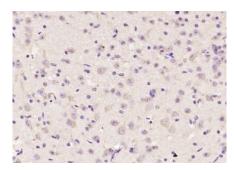
centrosome. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton, spindle. Note=Localized to the spindle microtubules and spindle poles from prophase to metaphase. Efficient targeting to spindle microtubules and spindle poles requires the kinase activity of PLK1. Recruited to mitotic

spindles by interaction with PSRC1

Images



Paraformaldehyde-fixed, paraffin embedded (rat 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 (KIF2A) Polyclonal Antibody, Unconjugated (AP56537) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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 (KIF2A) Polyclonal Antibody, Unconjugated (AP56537) at 1:200 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'.