

Anti-KIF3A Picoband Antibody
Catalog # ABO12340**Specification**

Anti-KIF3A Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9Y496
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Kinesin-like protein KIF3A(KIF3A) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-KIF3A Picoband Antibody - Additional Information

Gene ID 11127

Other Names

Kinesin-like protein KIF3A, Microtubule plus end-directed kinesin motor 3A, KIF3A, KIF3

Calculated MW

Kinesin-like protein KIF3A;Microtubule plus end-directed kinesin motor 3A;KIF3A;KIF3; KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

80041 MW

Tissue Specificity

Microtubule-based anterograde translocator for membranous organelles. Plus end-directed microtubule sliding activity in vitro. Plays a role in primary cilia formation (By similarity). .

Source

Cytoplasm, cytoskeleton . Cell projection, cilium .

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E.coli-derived human KIF3A recombinant protein (Position: D485-Q699). Human KIF3A shares 97.7% amino acid (aa) sequence identity with mouse KIF3A.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Kinesin-like protein KIF3A

Anti-KIF3A Picoband Antibody - Protein Information

Name KIF3A

Synonyms KIF3

Function

Microtubule-based anterograde translocator for membranous organelles. Plus end-directed microtubule sliding activity in vitro. Plays a role in primary cilia formation. Plays a role in centriole cohesion and subdistal appendage organization and function. Regulates the formation of the subdistal appendage via recruitment of DCTN1 to the centriole. Also required for ciliary basal feet formation and microtubule anchoring to mother centriole.

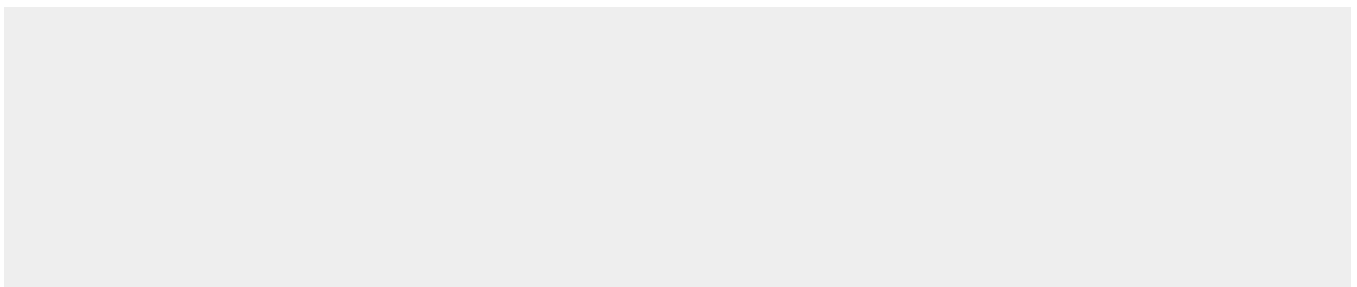
Cellular Location

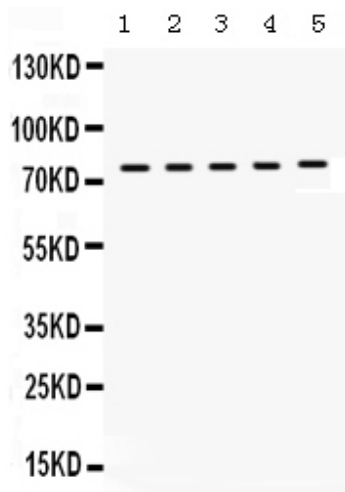
Cytoplasm, cytoskeleton. Cell projection, cilium {ECO:0000250|UniProtKB:P28741}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Note=Localizes to the subdistal appendage region of the centriole.

Anti-KIF3A Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-KIF3A Picoband Antibody - Images



Anti- KIF3A Picoband antibody, ABO12340, Western blotting All lanes: Anti KIF3A (ABO12340) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Rat Testis Tissue Lysate at 50ug
Lane 3: Mouse Brain Tissue Lysate at 50ug
Lane 4: Mouse Testis Tissue Lysate at 50ug
Lane 5: MCF-7 Whole Cell Lysate at 40ug
Predicted bind size: 80KD
Observed bind size: 80KD

Anti-KIF3A Picoband Antibody - Background

Kinesin-like protein KIF3A is a protein that in humans is encoded by the KIF3A gene. KIF3A is one subunit of the heterotrimeric motor protein, kinesin-2, that was initially isolated from sea urchin egg/embryo cytosol using microtubule affinity purification. This motor consists of two kinesin-related subunits (called KIF3A and KIF3B or 3C in vertebrates) and an associated protein (KAP3), and it transports protein complexes, nucleic acids and organelles towards the plus" ends of microtubule tracks within cells. Work done in a broad range of eukaryotic cells has revealed that heterotrimeric kinesin-2 is the primary motor protein driving the intra-flagellar transport of tubulins and other axonemal building blocks from the base of the ciliary/flagellar axoneme to their site of assembly at the distal tips. This process is required for cilium assembly/maintenance and cilium-based signalling which play key roles in various cell and developmental processes. For example