




Product datasheet

Anti-Kif2 α antibody ab3475

Overview

Product name	Anti-Kif2a antibody
Description	Rabbit polyclonal to Kif2a
Host species	Rabbit
Specificity	Detects Kinesin 2 (Kif2a) from mouse tissues.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse Predicted to work with: Rat, Chicken, Cow, Human, Xenopus laevis 
Immunogen	Synthetic peptide corresponding to Mouse Kif2a aa 1-11. Sequence: MVTSLNEDNES (Peptide available as ab4992)  Run BLAST with  Run BLAST with
Positive control	Mouse brain homogenate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab3475** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/200. Detects a band of approximately 95 kDa (predicted molecular weight: 79 kDa). Can be blocked with KLC1 peptide (ab4992) . This antibody detects a ~95 kDa protein representing KIF 2 from mouse brain homogenate.

Target

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.

Sequence similarities

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

Cellular localization

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.

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