abcam

## Product datasheet

# Anti-Kif2a antibody ab3475

### Overview

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| **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<br>**Predicted to work with:** Rat, Chicken, Cow, Human, Xenopus laevis |
| **Immunogen** | Synthetic peptide corresponding to Mouse Kif2a aa 1-11.<br>Sequence:<br>MVTSLNEDNES<br>(Peptide available as ab4992)<br>Run BLAST with Run BLAST with |
| **Positive control** | Mouse brain homogenate. |

### Properties

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| **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<br>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).<br>This antibody detects a ~95 kDa protein representing KIF 2 from mouse brain homogenate. |

## Target

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| **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.<br>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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