

## Product datasheet

# Anti-Kif2 $\alpha$ antibody ab55383

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### Overview

<b>Product name</b>	Anti-Kif2a antibody
<b>Description</b>	Mouse monoclonal to Kif2a
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Recombinant fragment
<b>Immunogen</b>	Recombinant full length protein, corresponding to amino acids 1-680 of Human Kif2a

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None PBS, pH 7.2
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

### Applications

Our [Abpromise guarantee](#) covers the use of **ab55383** 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
IHC-P		
WB	<span>★ ★ ★ ☆ ☆</span>	

<b>Application notes</b>	WB: Use at a concentration of 1-5 $\mu$ g/ml. IHC-P: Use at a concentration of 6 $\mu$ g/ml.
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This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

## 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.

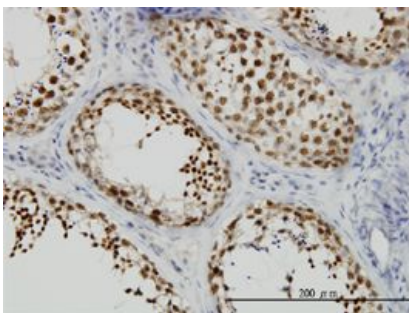
### Sequence similarities

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

### Cellular localization

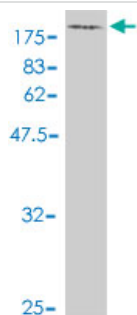
Cytoplasm. Cytoplasm > cytoskeleton > centrosome. Cytoplasm > cytoskeleton > spindle pole. Cytoplasm > cytoskeleton > spindle. Localized to the spindle microtubules and spindle poles from prophase to metaphase. Efficient targeting to spindle microtubules and spindle poles requires the kinase activity of PLK1. Recruited to mitotic spindles by interaction with PSRC1.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Kif2a antibody (ab55383)

Kif2a antibody (ab55383) used in immunohistochemistry at 6ug/ml on formalin fixed and paraffin embedded human testis.



Western blot - Kif2a antibody (ab55383)

Western blot against tagged recombinant protein immunogen using ab55383 Kif2a antibody at 1ug/ml. Predicted band size of immunogen is 101 kDa

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