

Product datasheet

Anti-KIF1A antibody [EPR11790(B)] ab180153

Recombinant **RabMAb**

★★★★★ [1 Abreviews](#) [6 References](#) [11 Images](#)

Overview

Product name	Anti-KIF1A antibody [EPR11790(B)]
Description	Rabbit monoclonal [EPR11790(B)] to KIF1A
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF, IP Unsuitable for: IHC-P
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide within Human KIF1A aa 900-1000. The exact sequence is proprietary. Database link: Q12756
Positive control	HEK-293 cells, Human fetal brain lysates, SH-SY5Y cells, U-87 MG cells, rat hypothalamus lysate and rat brain lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR11790(B)

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab180153 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
Flow Cyt (Intra)		1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/5000 - 1/10000. Detects a band of approximately 191 kDa (predicted molecular weight: 191 kDa).
ICC/IF		1/100.
IP		1/50.

Application notes

Is unsuitable for IHC-P.

Target

Function

Motor for anterograde axonal transport of synaptic vesicle precursors.

Sequence similarities

Belongs to the kinesin-like protein family. Unc-104 subfamily.

Contains 1 FHA domain.

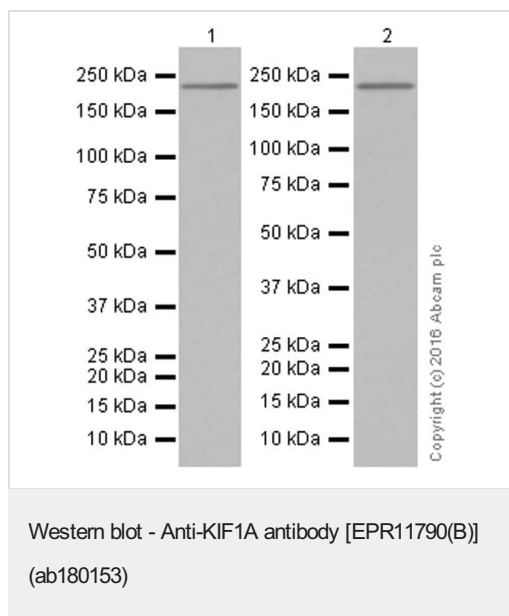
Contains 1 kinesin-motor domain.

Contains 1 PH domain.

Cellular localization

Cytoplasm > cytoskeleton.

Images



All lanes : Anti-KIF1A antibody [EPR11790(B)] (ab180153) at 1/1000 dilution (purified)

Lane 1 : Rat hypothalamus lysate

Lane 2 : Rat brain lysate

Lysates/proteins at 15 µg per lane.

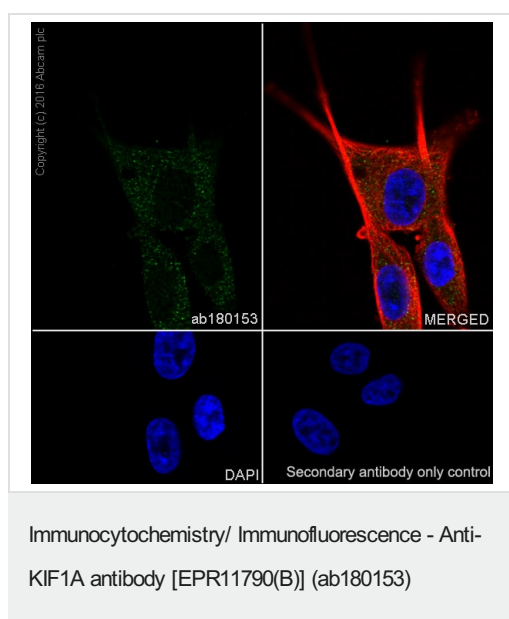
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

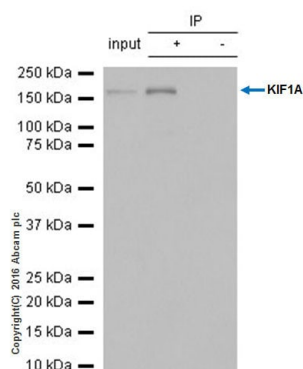
Predicted band size: 191 kDa

Observed band size: 191 kDa

Blocking and diluting buffer and concentration: 5% NFDM /TBST.



Immunocytochemistry/Immunofluorescence analysis of U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling KIF1A with purified ab180153 at 1/100 dilution (9.2 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilised with 0.1% tritonX-100. Ab195889, anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used as the secondary antibody at 1/200 dilution (2.5 µg/ml). DAPI was used as the nuclear counter stain.



Immunoprecipitation - Anti-KIF1A antibody
[EPR11790(B)] (ab180153)

ab180153 (purified) at 1/50 dilution

(2ug) immunoprecipitating KIF1A in SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate.

Lane 1 (input): SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate 10ug

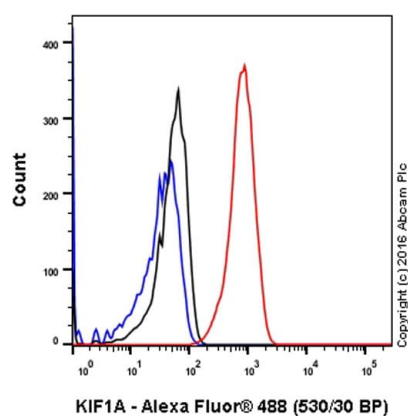
Lane 2 (+): ab180153 + SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate 10ug

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab180153 in SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate

For western blotting, **ab131366** VeriBlot for IP Detection Reagent (HRP) was used for detection (1/10000).

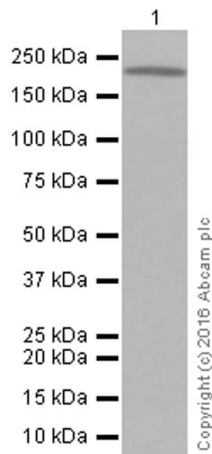
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Flow Cytometry (Intracellular) - Anti-KIF1A antibody
[EPR11790(B)] (ab180153)

Intracellular Flow Cytometry analysis of SH-SY5Y (Human neuroblastoma cell line from bone marrow) cells labeling KIF1A with purified ab180153 at 1/90 dilution (10 ug/ml). Cells were fixed with 4% paraformaldehyde. A goat anti-rabbit IgG (Alexa Fluor® 488) was used as the secondary antibody at 1/2000 dilution. Black - Isotype control, Rabbit monoclonal IgG. Blue - unlabelled control, cells without incubation with primary antibody and secondary antibody.



Western blot - Anti-KIF1A antibody [EPR11790(B)]
(ab180153)

Anti-KIF1A antibody [EPR11790(B)] (ab180153) at 1/10000 dilution (purified) + HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate at 15 µg

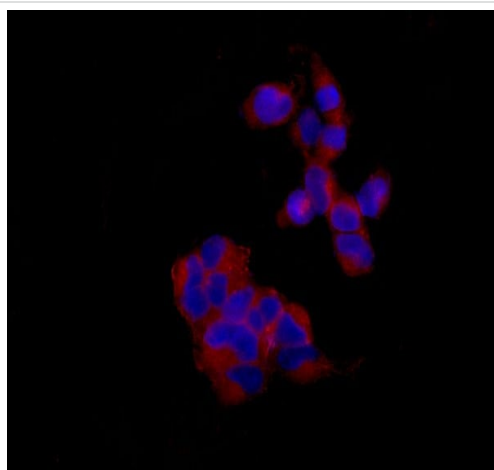
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 191 kDa

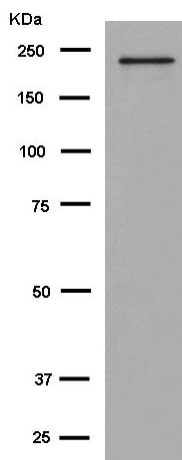
Observed band size: 191 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-KIF1A antibody [EPR11790(B)] (ab180153)

Immunofluorescent analysis of 4% paraformaldehyde-fixed 293 cells labeling KIF1A with unpurified ab180153 at 1/100 dilution, followed by Goat anti rabbit IgG (Dylight 555) at 1/250 dilution. Counter stained with Dapi.



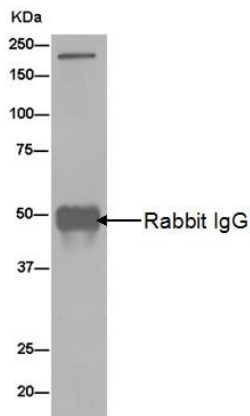
Western blot - Anti-KIF1A antibody [EPR11790(B)]
(ab180153)

Anti-KIF1A antibody [EPR11790(B)] (ab180153) at 1/20000 dilution (unpurified) + 293 cell lysate at 10 µg

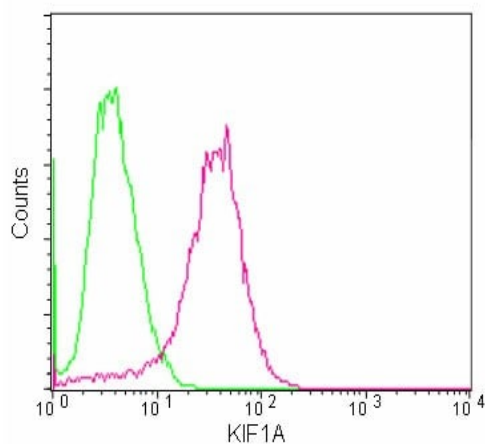
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

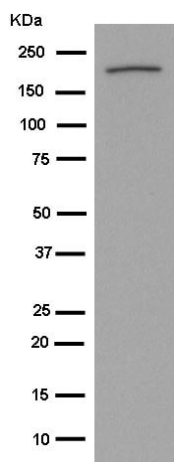
Predicted band size: 191 kDa



Immunoprecipitation - Anti-KIF1A antibody
[EPR11790(B)] (ab180153)



Flow Cytometry (Intracellular) - Anti-KIF1A antibody
[EPR11790(B)] (ab180153)



Western blot - Anti-KIF1A antibody [EPR11790(B)]
(ab180153)

Western blot analysis of 293 cell lysate immunoprecipitated using unpurified ab180153 at 1/30 dilution, followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody at 1/1000 dilution.

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed SH-SY5Y cells labeling KIF1A with unpurified ab180153 at 1/150 dilution (red), compared to a Rabbit IgG control (green), followed by Goat anti rabbit IgG (FITC) at 1/75 dilution.

Anti-KIF1A antibody [EPR11790(B)] (ab180153) at 1/10000 dilution (unpurified) + Human fetal brain lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 191 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-KIF1A antibody [EPR11790(B)] (ab180153)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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