abcam

ab180153

Anti-KIF1A antibody [EPR11790(B)]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR11790(B)
Purification technique	Affinity purification Protein A
Concentration	0.92 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/50
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Rat
Dilution info	1/5000 - 1/10000
Notes	-

Species	Human
Dilution info	1/5000 - 1/10000
Notes	-

IHC-P

Not recommended

Species	Human, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information KIF1A

Function	Kinesin motor with a plus-end-directed microtubule motor activity (By similarity). It is required for anterograde axonal transport of synaptic vesicle precursors (PubMed:33880452). Also required for neuronal dense core vesicles (DCVs) transport to the dendritic spines and axons. The interaction calcium-dependent with CALM1 increases vesicle motility and interaction with the scaffolding proteins PPFIA2 and TANC2 recruits DCVs to synaptic sites.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

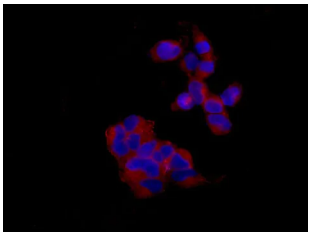
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

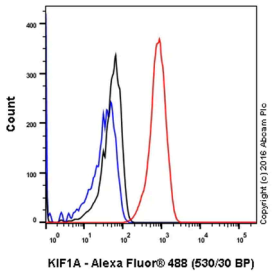
10 product images



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

KIF1A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-KIF1A antibody

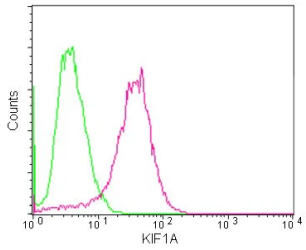
Immunofluorescent analysis of 4% paraformaldehyde-fixed 293 cells labeling KIF1A with unpurified ab180153 at 1/100 dilution, followed by Goat anti rabbit IgG (Dylight 555) at 1/250 dilution. Counter stained with Dapi.



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

KIF1A Flow Cytometry (Intracellular) staining using rabbit Anti-KIF1A antibody

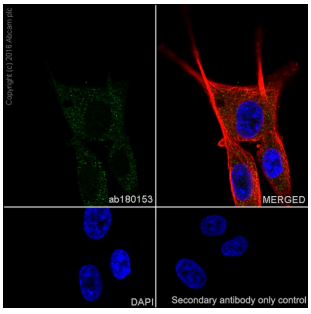
Intracellular Flow Cytometry analysis ofSH-SY5Y (Human neuroblastoma cell line from bone marrow) cells labeling KIF1A with purifiedab180153 at 1/90 dilution (10 ug/ml).Cells were fixed with 4% paraformaldehyde. A goat anti-rabbit IgG (Alexa Fluor® 488) was used as the secondary antibody at 1/2000 dilution.Black - Isotype control, Rabbit monoclonal IgG. Blue - unlabelled control, cells without incubation with primary antibody and secondary antibody.



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

KIF1A Flow Cytometry (Intracellular) staining using rabbit Anti-KIF1A antibody

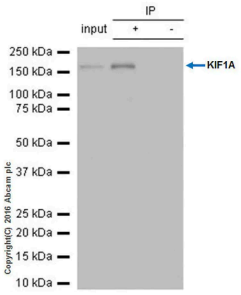
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixedSH-SY5Y cells labeling KIF1A with unpurified ab180153 at 1/150 dilution (red), compared to a Rabbit IgG control (green), followed by Goat anti rabbit IgG (FITC) at 1/75 dilution.



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

KIF1A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-KIF1A antibody

Immunocytochemistry/Immunofluorescence analysis of U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling KIF1A with purified ab180153 at 1/100 dilution (9.2µg/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).

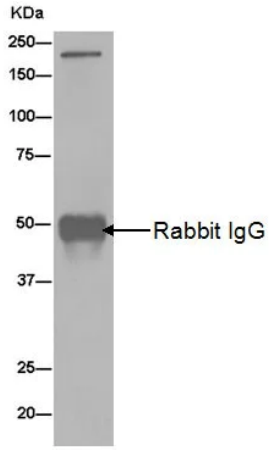
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

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

Predicted band size: 191 kDa

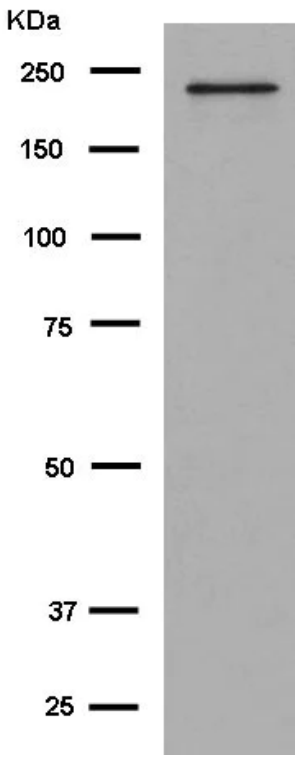
Observed band size: 191 kDa



Immunoprecipitation - 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.
All lanes:
Immunoprecipitation - Anti-KIF1A antibody [EPR11790(B)] (ab180153)

Predicted band size: 191 kDa



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

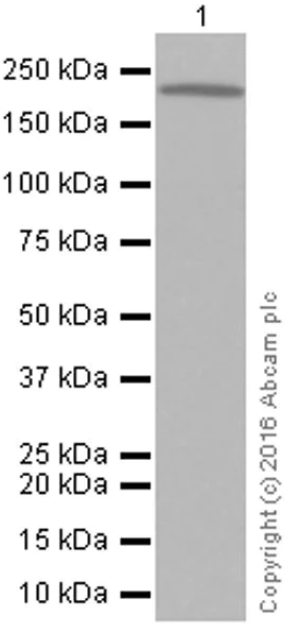
All lanes:
Western blot - Anti-KIF1A antibody [EPR11790(B)] (ab180153) at 1/20000 dilution

All lanes:
293 cell lysate at 10 µg

Secondary

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

Predicted band size: 191 kDa



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

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
All lanes:
Western blot - Anti-KIF1A antibody [EPR11790(B)] (ab180153) at 1/10000 dilution

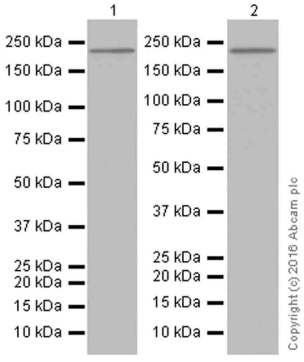
All lanes:
HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate at 15 µg

Secondary

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

Predicted band size: 191 kDa

Observed band size: 191 kDa



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

Blocking and diluting buffer and concentration: 5% NFDM /TBST.
All lanes:
Western blot - Anti-KIF1A antibody [EPR11790(B)] (ab180153) at 1/1000 dilution

Lane 1:
Rat hypothalamus lysate at 15 µg

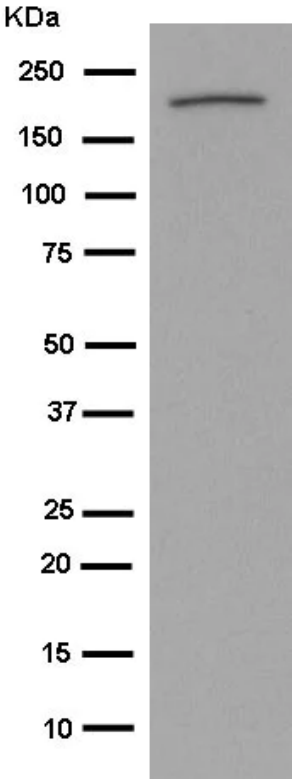
Lane 2:
Rat brain lysate at 15 µg

Secondary

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

Predicted band size: 15 kDa, 191 kDa

Observed band size: 14 kDa, 191 kDa



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

All lanes:
Western blot - Anti-KIF1A antibody [EPR11790(B)] (ab180153) at 1/10000 dilution

All lanes:
Human fetal brain lysate at 20 µg

Secondary

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

Predicted band size: 191 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.