abcam

ab240222

Anti-KIF1A antibody [EPR11790(B)] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR11790(B)
Purification technique	Affinity purification Protein A
Concentration	1.055 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

WB

Expected

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

IHC-P

Not recommended

Species	Rat, Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Rat
Dilution info	-
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	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab240222 is the carrier-free version of ab180153.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

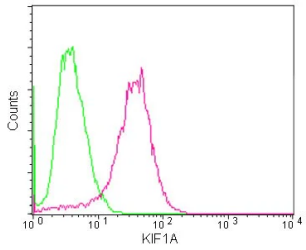
We do not recommend this combination. It is not covered by our product promise.

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.

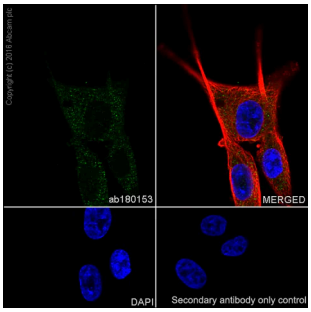
6 product images



Flow Cytometry (Intracellular) - Anti-KIF1A antibody [EPR11790(B)] - BSA and Azide free (ab240222)

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

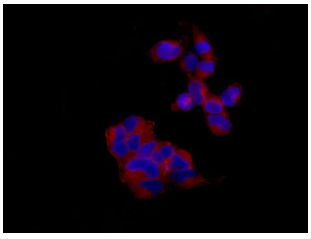
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed SH-SY5Y cells labeling KIF1A with unpurified ab180153 at 1/150 dilution (red), compared to a Rabbit IgG control (green), followed by Goat anti rabbit IgG (FITC) at 1/75 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180153).



Immunocytochemistry/ Immunofluorescence - Anti-KIF1A antibody [EPR11790(B)] - BSA and Azide free (ab240222)

KIF1A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-KIF1A antibody

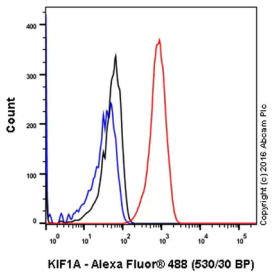
Immunocytochemistry/Immunofluorescence analysis of U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling KIF1A with purified ab180153 at 1/100 dilution (9.2µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilised with 0.1% tritonX-100. ab195889, anti-alpha Tubulin antibody [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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180153).



Immunocytochemistry/ Immunofluorescence - Anti-KIF1A antibody [EPR11790(B)] - BSA and Azide free (ab240222)

KIF1A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-KIF1A antibody

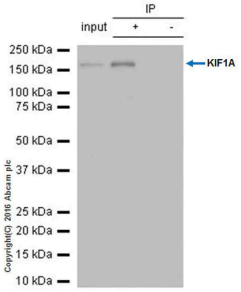
Immunofluorescent analysis of 4% paraformaldehyde-fixed 293 cells labeling KIF1A with unpurified ab180153 at 1/100 dilution, followed by Goat anti rabbit IgG (Dylight 555) at 1/250 dilution. Counter stained with Dapi.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180153).



Flow Cytometry (Intracellular) - Anti-KIF1A antibody [EPR11790(B)] - BSA and Azide free (ab240222)

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

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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180153).



Immunoprecipitation - Anti-KIF1A antibody [EPR11790(B)] - BSA and Azide free (ab240222)

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 at 1/10000 dilution.

Blocking buffer and concentration: 5% NFDM/TBST.

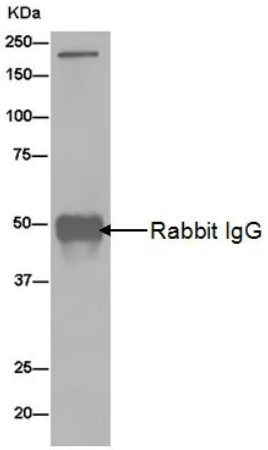
Diluting buffer and concentration: 5% NFDM /TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180153).

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)] - BSA and Azide free (ab240222)

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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180153).

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

Predicted band size: 191 kDa

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