abcam

ab249812

Anti-RAB11-FIP2 antibody [EPR12294] - 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	EPR12294
Purification technique	Affinity purification
Concentration	0.985 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information RAB11FIP2

Function	A Rab11 effector binding preferentially phosphatidylinositol 3,4,5-trisphosphate (PtdInsP3) and phosphatidic acid (PA) and acting in the regulation of the transport of vesicles from the endosomal recycling compartment (ERC) to the plasma membrane. Involved in insulin granule exocytosis. Also involved in receptor-mediated endocytosis and membrane trafficking of recycling endosomes, probably originating from clathrin-coated vesicles. Required in a complex with MYO5B and RAB11 for the transport of NPC1L1 to the plasma membrane. Also acts as a regulator of cell polarity. Plays an essential role in phagocytosis through a mechanism involving TICAM2, RAC1 and CDC42 Rho GTPases for controlling actin-dynamics.

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

ab249812 is the carrier-free version of ab174313.

Species reactivity

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	RAB11-FIP2 also known as Rab11 Family Interacting Protein 2 interacts mechanically with the small GTPase Rab11. It plays a role in the transport of recycling endosomes to the plasma membrane. The molecular mass of RAB11-FIP2 is approximately 55 kDa. This protein is expressed in a variety of tissues including epithelial cells and neurons indicating its role in diverse cellular environments. Its function is important for maintaining the dynamics of vesicular trafficking.
Biological function summary	The protein influences endocytic recycling processes facilitating the movement of molecules such as glucose transporters and integrins back to the cell surface. RAB11-FIP2 associates with several other proteins in the Rab11 pathway forming a complex that functions in the coordination and regulation of vesicular trafficking. Its precise regulation of membrane recycling has implications for processes like cell migration and signal transduction.
Pathways	The protein operates within the recycling endosome pathway and is part of the intricate network controlling intracellular trafficking. RAB11-FIP2 has significant interactions with proteins like Rab11 and EHD1. These interactions are integral to the proper functioning of pathways directing the distribution and localization of important cellular components impacting cellular homeostasis.
Associated diseases and disorders	Improper regulation or mutations of RAB11-FIP2 have been associated with disorders such as cancer and epilepsy. Altered expression levels can affect cellular transport processes contributing to the progression of such diseases. Additionally RAB11-FIP2 shows connections with proteins like GLUT4 in metabolic pathways which suggests a possible role in metabolic disorders highlighting its clinical significance.

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.

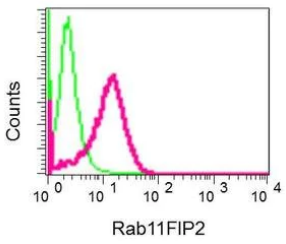
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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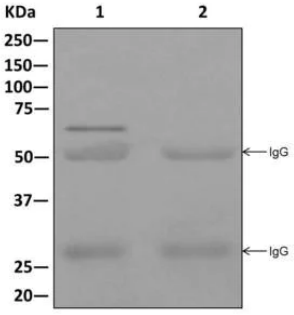
3 product images



Flow Cytometry (Intracellular) - Anti-RAB11-FIP2 antibody [EPR12294] - BSA and Azide free (ab249812)

RAB11-FIP2 Flow Cytometry (Intracellular) staining using rabbit Anti-RAB11-FIP2 antibody

This data was developed using ab174313, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized HeLa cells using ab174313 at a 1/10 dilution (red) or a rabbit IgG (negative) (green).

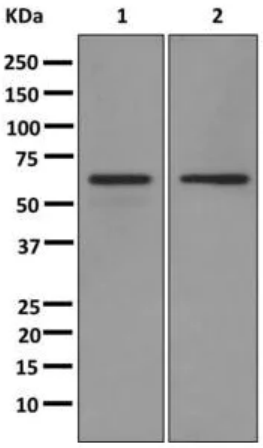


Immunoprecipitation - Anti-RAB11-FIP2 antibody [EPR12294] - BSA and Azide free (ab249812)

This data was developed using ab174313, the same antibody clone in a different buffer formulation.
Western blot analysis of immunoprecipitation pellet from 293T cell lysate (lane 1) or 1XPBS (negative control) (lane 2) using ab174313 at a 1/10 dilution, and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

All lanes:
Immunoprecipitation - Anti-RAB11-FIP2 antibody [EPR12294] (ab174313)

Predicted band size: 58 kDa



Western blot - Anti-RAB11-FIP2 antibody [EPR12294] - BSA and Azide free (ab249812)

This data was developed using ab174313, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-RAB11-FIP2 antibody [EPR12294] (ab174313) at 1/1000 dilution

Lane 1:
293T cell lysate at 10 µg

Lane 2:
HeLa cell lysate at 10 µg

Predicted band size: 58 kDa

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