abcam

ab174313

Anti-RAB11-FIP2 antibody [EPR12294]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 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	EPR12294
Purification technique	Affinity purification Protein A
Concentration	0.266 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
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	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

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	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

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.

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

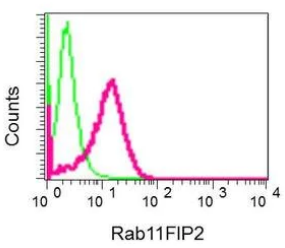
We do not recommend this combination. It is not covered by our product promise.

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.

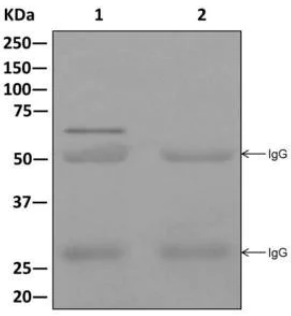
3 product images



Flow Cytometry (Intracellular) - Anti-RAB11-FIP2 antibody [EPR12294] (ab174313)

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

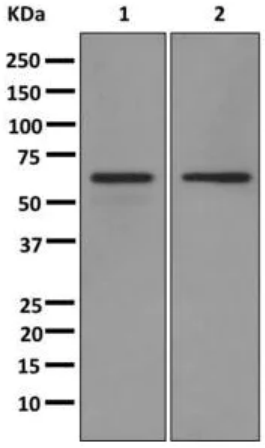
Intracellular flow cytometric analysis of permeabilized HeLa cells using ab174313 at a 1/10 dilution (red) or a rabbit IgG (negative) (green).



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

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] (ab174313)

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'.