abcam

ab249386

Anti-TTC14 antibody [EPR11143] - 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	EPR11143
Purification technique	Affinity purification

Reactivity data

IP

Not recommended

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 TTC14

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

ab249386 is the carrier-free version of ab166905.

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	TTC14 also known as tetratricopeptide repeat domain 14 is a protein with a molecular mass around 68 kDa. This protein plays an important mechanical role in cilia function by possessing tetratricopeptide repeat domains that facilitate protein-protein interactions necessary for its activity. TTC14 shows expression predominantly within tissues that require motile cilia like respiratory epithelium and reproductive tracts.

Biological function summary	TTC14 is involved in the functioning and maintenance of ciliary structures essential for cellular motility and fluid movement across various surfaces. TTC14 acts as a part of the ciliary transition zone a critical component that regulates ciliary protein import and function. This involvement implies a significant role in modifying the composition of ciliary membrane essential for its sensing and motility purposes.
Pathways	Researchers place TTC14 within ciliary assembly and maintenance pathways which involve coordination and transport mechanisms that ensure proper cilium structure and function. It also associates with the intraflagellar transport system working alongside proteins like IFT88 and IFT20 to sustain ciliary activities. Such participation indicates TTC14's importance in maintaining ciliary integrity and function.
Associated diseases and disorders	Malfunction or mutations in TTC14 can lead to conditions associated with ciliary dysfunction like Primary Ciliary Dyskinesia (PCD) and infertility due to impaired sperm motility. TTC14 shows interaction with other key ciliary-related proteins such as DNAH5 where abnormalities typically result in overlapping ciliary disorders. Consequently studying TTC14 contributes to understanding the molecular mechanisms underpinning these diseases.

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

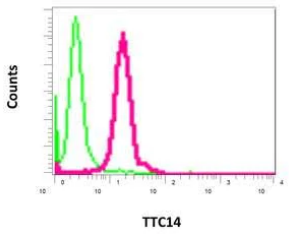
We do not recommend this combination. It is not covered by our product promise.

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.

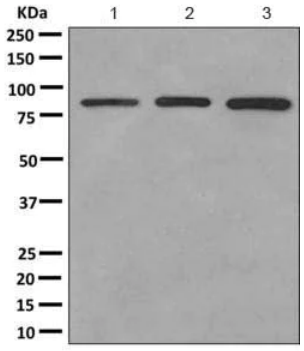
2 product images



Flow Cytometry (Intracellular) - Anti-TTC14 antibody [EPR11143] - BSA and Azide free (ab249386)

TTC14 Flow Cytometry (Intracellular) staining using rabbit Anti-TTC14 antibody

This data was developed using ab166905, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling TTC14 using ab166905 at 1/100 dilution (red) or a rabbit IgG negative (green).



Western blot - Anti-TTC14 antibody [EPR11143] - BSA and Azide free (ab249386)

TTC14 Western blot staining using rabbit Anti-TTC14 antibody

This data was developed using ab166905, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-TTC14 antibody [EPR11143] (ab166905) at 1/1000 dilution

Lane 1:
Daudi cell lysate at 10 µg

Lane 2:
Ramos cell lysate at 10 µg

Lane 3:
Jurkat cell lysate at 10 µg

Secondary

All lanes:
goat anti-rabbit HRP IgG antibody at 1/2000 dilution

Predicted band size: 88 kDa

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