abcam

ab250767

Anti-IFT88 antibody [EPR14850] - 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	EPR14850
Purification technique	Affinity purification Protein A

Reactivity data

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information IFT88

Function	Positively regulates primary cilium biogenesis (PubMed:17604723). Also involved in autophagy since it is required for trafficking of ATG16L and the expansion of the autophagic compartment.

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

ab250767 is the carrier-free version of ab184566.

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	IFT88 also known as Intraflagellar transport protein 88 is an essential component of the intraflagellar transport (IFT) mechanism. This protein has a mass of approximately 88 kDa and is expressed in ciliated cells across various tissues. Cilia are critical structures in cellular function and IFT88 operates as part of the IFT-B complex playing a role in the assembly and maintenance of cilia. Its localization primarily occurs in the cilia where it functions as a transporter of protein cargos necessary for cilia construction and function.
Biological function summary	The role of IFT88 within the context of cilia involves the facilitation of bidirectional movement along the axoneme which is the central shaft of a cilium. As part of the IFT-B complex IFT88 aids in the transport of tubulin and other ciliary components from the cell body to the ciliary tip ensuring cilia's structural integrity and functional viability. Additionally IFT88 supports signal transduction processes associated with ciliary functions including sensing extracellular signals and maintaining cellular signaling pathways.
Pathways	IFT88 has significant involvement in the Hedgehog and Wnt signaling pathways. These pathways are integral for cell differentiation proliferation and embryonic

	development. IFT88 collaborates with proteins such as Gli transcription factors in Hedgehog signaling and interacts with various cytosolic components in Wnt signaling showing its versatile role in cellular processes. Through these interactions IFT88 indirectly influences the outcome of these signaling pathways impacting tissue patterning and cell fate decisions during development.
Associated diseases and disorders	IFT88 mutations are linked to ciliopathies like polycystic kidney disease and Bardet-Biedl syndrome. These conditions demonstrate defects in ciliary function where IFT88 dysfunction results in abnormal cellular processes. The connection between IFT88 and these diseases extends to its interactions with proteins such as polycystin-1 and polycystin-2 in kidney development and function. Such associations emphasize the critical role of IFT88 in maintaining normal cellular and organ function whereby its impairment leads to profound developmental and physiological anomalies.

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

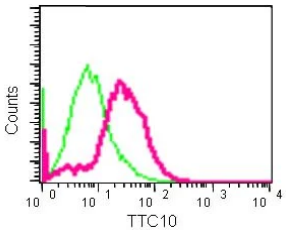
We do not recommend this combination. It is not covered by our product promise.

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.

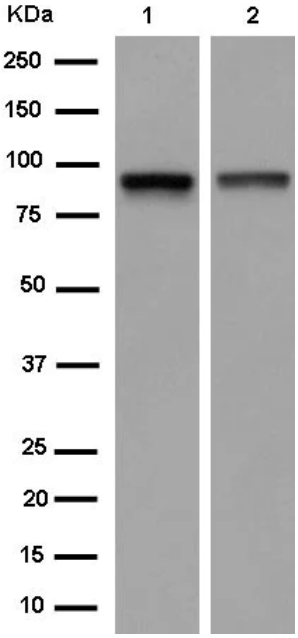
3 product images



Flow Cytometry (Intracellular) - Anti-IFT88 antibody [EPR14850] - BSA and Azide free (ab250767)

IFT88 Flow Cytometry (Intracellular) staining using rabbit Anti-IFT88 antibody

This data was developed using ab184566, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of HepG2 cells (2% paraformaldehyde-fixed) labeling IFT88 with ab184566 at 1/260 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Western blot - Anti-IFT88 antibody [EPR14850] - BSA and Azide free (ab250767)

IFT88 Western blot staining using rabbit Anti-IFT88 antibody

This data was developed using ab184566, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-IFT88 antibody [EPR14850] - N-terminal (ab184566) at 1/10000 dilution

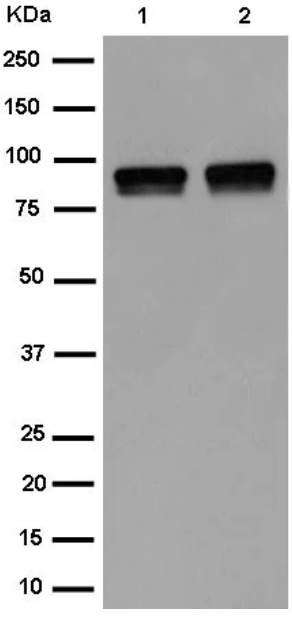
Lane 1:
HepG2 cell lysate at 20 µg

Lane 2:
Jurkat cell lysate at 20 µg

Secondary

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

Predicted band size: 94 kDa



Western blot - Anti-IFT88 antibody [EPR14850] - BSA and Azide free (ab250767)

IFT88 Western blot staining using rabbit Anti-IFT88 antibody

This data was developed using ab184566, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-IFT88 antibody [EPR14850] - N-terminal (ab184566) at 1/50000 dilution

Lane 1:
293 cell lysate at 20 µg

Lane 2:
Human fetal kidney tissue lysate at 20 µg

Secondary

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

Predicted band size: 51 kDa, 94 kDa, 96 kDa

Observed band size: 105 kDa, 51 kDa

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