abcam

ab249184

Anti-FABP12 antibody [EPR10536] - 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	EPR10536
Purification technique	Affinity purification

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

WB

Tested

Species	Rat, Mouse, Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Target data

See full target information Fatty acid-binding protein 12

Function	May play a role in lipid transport.

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

ab249184 is the carrier-free version of ab155089.

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	FABP12 also known as fatty acid-binding protein 12 plays a role in lipid transport and metabolism. This protein facilitates the binding and transport of long-chain fatty acids within cells. Although its exact molecular weight is not universally established similar fatty acid-binding proteins often have masses around 14-15 kDa. FABP12 expression primarily occurs in the mammalian retina with detectable levels in other tissues including certain types of cancer tissues.
Biological function summary	FABP12 influences cellular processes through its interaction with lipids. This protein contributes to fatty acid uptake and intracellular lipid homeostasis. It does not function as part of a larger macromolecular complex but interacts dynamically with fatty acids impacting lipid signaling and energy balance within the cell. Through these interactions FABP12 supports cellular energy production and lipid storage regulation.
Pathways	FABP12 is involved in lipid metabolism and energy homeostasis pathways. One important pathway includes the peroxisome proliferator-activated receptor (PPAR) signaling pathway which regulates lipid metabolism. Nearby proteins like PPAR-alpha and PPAR-gamma are important for FABP12's regulation of lipid-derived energy. Another relevant connection is to the retinoic acid signaling pathway where FABP12's binding affinity with retinoids potentially influences cellular differentiation and development.
Associated diseases and disorders	Research connects FABP12 to cancer and metabolic syndromes. In some cancers altered expression levels of FABP12 appear to influence tumor growth and metabolism. Studies have linked FABP12 with proteins such as FABP5 another member of the fatty acid-binding protein family in cancerous tissue dynamics. Additionally FABP12 involvement in metabolic disorders suggests a relationship with insulin resistance where its expression may impact the function of key proteins related to glucose metabolism.

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

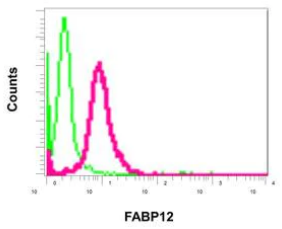
We do not recommend this combination. It is not covered by our product promise.

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.

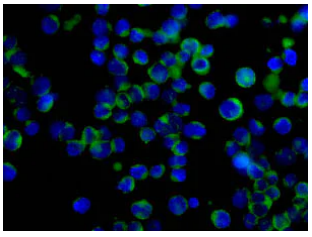
3 product images



Flow Cytometry (Intracellular) - Anti-FABP12 antibody [EPR10536] - BSA and Azide free (ab249184)

FABP12 Flow Cytometry (Intracellular) staining using rabbit Anti-FABP12 antibody

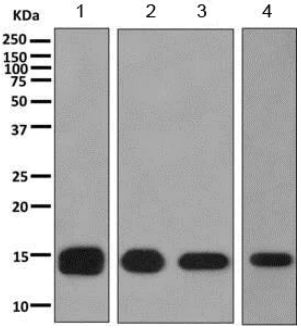
This data was developed using ab155089, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized Jurkat cells, labeling FABP12 with ab155089 at 1/10 dilution (red) compared with a Rabbit IgG control (green).



Immunocytochemistry/ Immunofluorescence - Anti-FABP12 antibody [EPR10536] - BSA and Azide free (ab249184)

FABP12 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-FABP12 antibody

This data was developed using ab155089, the same antibody clone in a different buffer formulation.Immunofluorescent analysis of Jurkat cells labeling FABP12 with ab155089 at 1/50 dilution.



Western blot - Anti-FABP12 antibody [EPR10536] - BSA and Azide free (ab249184)

This data was developed using ab155089, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-FABP12 antibody [EPR10536] (ab155089) at 1/1000 dilution

Lane 1:
Rat eyeball tissue lysate at 10 µg

Lane 2:
Mouse eyeball lysate at 10 µg

Lane 3:
Human fetal brain tissue lysate at 10 µg

Lane 4:
Jurkat cell lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 16 kDa

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