abcam

ab250783

Anti-PCTP antibody [EPR15390] - 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	EPR15390
Purification technique	Affinity purification Protein A

Reactivity data

IP

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information PCTP

Function	Catalyzes the transfer of phosphatidylcholine between membranes. Binds a single lipid molecule.

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

ab250783 is the carrier-free version of ab184944.

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	PCTP also known as Phosphatidylcholine Transfer Protein is a lipid-binding protein important for lipid metabolism. It weighs approximately 26 kDa and is expressed in many tissues including liver adipose tissue and testis. Mechanically PCTP binds to phosphatidylcholine and transfers it between membranes. This transfer is essential in maintaining the lipid composition and function of cell membranes. The target enables effective lipid signaling in various cellular environments.
Biological function summary	PCTP plays a role in the management of lipid homeostasis and membrane structure. The protein does not form part of a larger complex but interacts with various membrane-associated lipid molecules. Its activity affects the distribution of lipids within cells and contributes to processes such as membrane trafficking and signal transduction. This activity supports cellular functions like proliferation differentiation and apoptosis through regulated lipid signaling.
Pathways	PCTP participates in lipid signaling and transport mechanisms. The protein associates with key pathways like glycerophospholipid metabolism and glycerolipid metabolism influencing lipid distribution and cellular communication. It interacts with proteins such as ABCA1 and LXR which play significant roles in cholesterol and phospholipid transport. These interactions help regulate lipid levels in the cell ensuring proper biological function within these pathways.
Associated diseases and disorders	PCTP links to conditions like cardiovascular disease and metabolic syndrome. Aberrant PCTP activity can influence lipid levels and contribute to the pathogenesis of these disorders. The protein interacts with molecules like oxidized LDL in the context of cardiovascular disease impacting lipid accumulation and

atherosclerosis. Understanding PCTP's role in these conditions may offer insights into therapeutic strategies targeting lipid 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

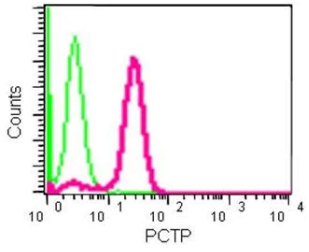
We do not recommend this combination. It is not covered by our product promise.

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.

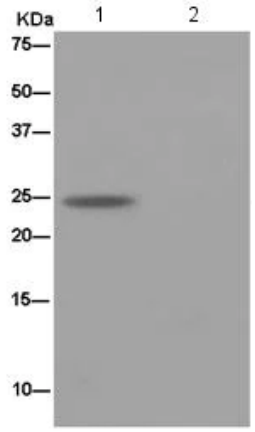
3 product images



Flow Cytometry (Intracellular) - Anti-PCTP antibody [EPR15390] - BSA and Azide free (ab250783)

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

This data was developed using ab184944, the same antibody clone in a different buffer formulation.
Intracellular Flow Cytometry analysis of paraformaldehyde-fixed K562 cells labeling PCTP with ab184944 at a 1/200 dilution (Red), with a negative control rabbit IgG (Green). Secondary antibody goat anti-rabbit IgG (FITC) at a 1/150 dilution.



Immunoprecipitation - Anti-PCTP antibody [EPR15390] - BSA and Azide free (ab250783)

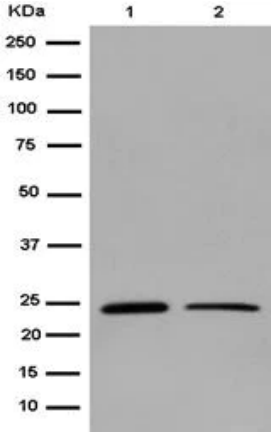
This data was developed using ab184944, the same antibody clone in a different buffer formulation.
Western blot analysis on immunoprecipitation from Human fetal liver lysate (Lane 1), labeling PCTP using ab184944 at 1/50 dilution. Lane 2 shows PBS negative control. Secondary antibody, HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG at a 1/1500 dilution.

All lanes:
Immunoprecipitation - Anti-PCTP antibody [EPR15390] (ab184944)

Developed using the ECL technique.

Predicted band size: 25 kDa

Observed band size: 25 kDa



Western blot - Anti-PCTP antibody [EPR15390] - BSA and Azide free (ab250783)

This data was developed using ab184944, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-PCTP antibody [EPR15390] (ab184944) at 1/1000 dilution

Lane 1:
Human fetal liver tissue lysate at 20 µg

Lane 2:
K562 cell lysate at 20 µg

Secondary

All lanes:
goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 25 kDa

Observed band size: 25 kDa

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