abcam

ab184944

Anti-PCTP antibody [EPR15390]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 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	EPR15390
Purification technique	Affinity purification Protein A
Concentration	1.036 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30 - 1/50
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/200
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information PCTP

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

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

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	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

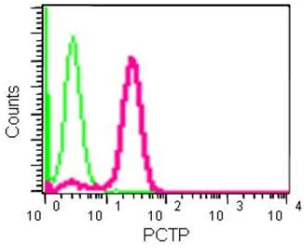
We do not recommend this combination. It is not covered by our product promise.

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.

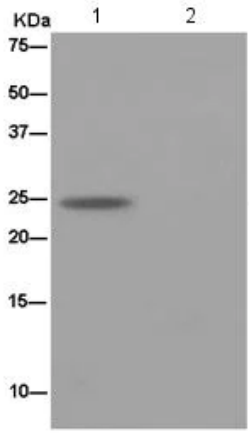
3 product images



Flow Cytometry (Intracellular) - Anti-PCTP antibody [EPR15390] (ab184944)

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

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.



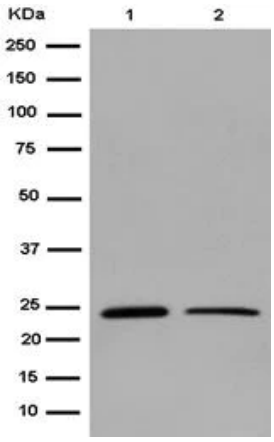
Immunoprecipitation - Anti-PCTP antibody [EPR15390] (ab184944)

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] (ab184944)

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'.