abcam

ab151691

Anti-OSBPL9 antibody [EPR9333]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 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	EPR9333
Purification technique	Affinity purification Protein A
Concentration	0.425 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information OSBPL9

Function	Interacts with OSBPL11 to function as lipid transfer proteins (PubMed:39106189). Together they form a heterodimer that localizes at the ER-trans-Golgi membrane contact sites, and exchanges phosphatidylserine (1,2-diacyl-sn-glycero-3-phospho-L-serine, PS) for phosphatidylinositol-4-phosphate (1,2-diacyl-sn-glycero-3-phospho-(1D-myo-inositol 4-phosphate), PI(4)P) between the two organelles, a step that is critical for sphingomyelin synthesis in the Golgi complex (PubMed:39106189).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

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	OSBPL9 also referred to as oxysterol-binding protein-like 9 is a member of the oxysterol-binding protein (OSBP)-related protein family. This protein family involves intracellular lipid transport. OSBPL9 has a molecular weight of approximately 89 kDa. It is expressed in various tissues with high levels in brain pancreas and intestine. The protein possesses a pleckstrin homology domain and a conserved OSBP-related domain which play roles in binding to lipids and facilitating their transport within cells.
Biological function summary	OSBPL9 participates in lipid metabolism and cellular lipid homeostasis. It binds to phosphoinositides and sterols regulating lipid distribution and signaling. Studies

	indicate that OSBPL9 forms part of a complex involved in the transfer of lipids at the membrane contact sites between organelles such as the endoplasmic reticulum and the Golgi apparatus. These interactions highlight its integral role in maintaining lipid equilibrium across cellular compartments.
Pathways	A deeper understanding of OSBPL9 shows its involvement in signaling pathways alongside other lipid-binding proteins. It plays a significant role within the sterol regulatory element-binding protein (SREBP) signaling pathway and potentially the PI3K-Akt signaling pathway. These pathways are essential in lipid synthesis and cellular growth. OSBPL9 shares functional interactions with proteins like OSBP and other OSBP-related proteins emphasizing its collaborative involvement in these pathways.
Associated diseases and disorders	OSBPL9 association with dyslipidemia and metabolic disorders has been observed due to its influence on lipid homeostasis. Alterations in OSBPL9 function may contribute to abnormal lipid levels impacting conditions like atherosclerosis. The protein's connection to metabolic pathways suggests a linkage with proteins such as OSBPL10 further indicating its potential involvement in the pathogenesis of these metabolic disorders. Researchers continue to study OSBPL9 to better understand its role in 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

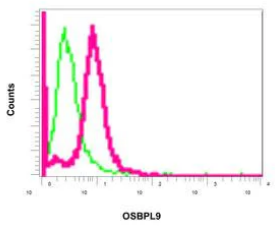
We do not recommend this combination. It is not covered by our product promise.

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.

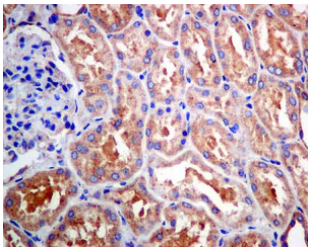
3 product images



Flow Cytometry (Intracellular) - Anti-OSBPL9 antibody [EPR9333] (ab151691)

OSBPL9 Flow Cytometry (Intracellular) staining using rabbit Anti-OSBPL9 antibody

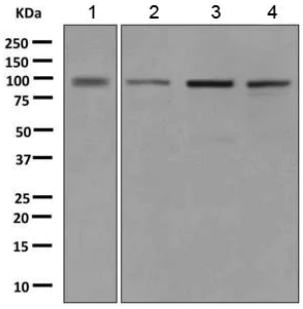
Intracellular flow cytometric analysis of permeabilized 293T cells labeling OSBPL9 with ab151691 at 1/10 dilution (red) compared to a nonspecific control antibody (green).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OSBPL9 antibody [EPR9333] (ab151691)

OSBPL9 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-OSBPL9 antibody

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling OSBPL9 with ab151691 at 1/50 dilution.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-OSBPL9 antibody [EPR9333] (ab151691)

OSBPL9 Western blot staining using rabbit Anti-OSBPL9 antibody

All lanes:
Western blot - Anti-OSBPL9 antibody [EPR9333] (ab151691) at 1/1000 dilution

Lane 1:
Human fetal brain tissue lysate at 10 µg

Lane 2:
Jurkat cell lysate at 10 µg

Lane 3:
293T (Human embryonic kidney epithelial cell) cell lysate at 10 µg

Lane 4:
HepG2 cell lysate at 10 µg

Secondary

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

Predicted band size: 83 kDa

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