abcam

ab249015

Anti-OSBPL9 antibody [EPR9333] - 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	EPR9333
Purification technique	Affinity purification Protein A
Concentration	1.026 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

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	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab249015 is the carrier-free version of ab151691.

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	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.

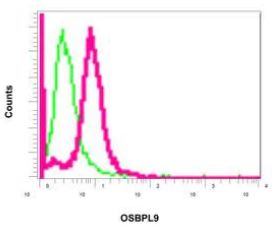
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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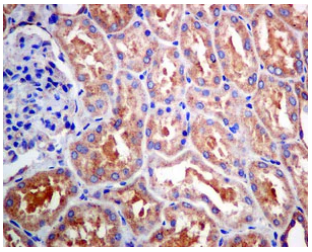
3 product images



Flow Cytometry (Intracellular) - Anti-OSBPL9 antibody [EPR9333] - BSA and Azide free (ab249015)

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

This data was developed using ab151691, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized 293T cells labeling OSBPL9 with ab151691 at 1/10 dilution (red) compared to a nonspecific control antibody (green).

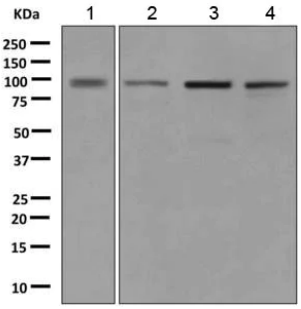


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OSBPL9 antibody [EPR9333] - BSA and Azide free (ab249015)

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

This data was developed using ab151691, the same antibody clone in a different buffer formulation.
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] - BSA and Azide free (ab249015)

OSBPL9 Western blot staining using rabbit Anti-OSBPL9 antibody

This data was developed using ab151691, the same antibody clone in a different buffer formulation.
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'.