


Product datasheet

Anti-OSBPL5/ORP5 antibody ab59016

★☆☆☆☆ [1 Abreviews](#) [6 References](#) [7 Images](#)

Overview

Product name	Anti-OSBPL5/ORP5 antibody
Description	Goat polyclonal to OSBPL5/ORP5
Host species	Goat
Specificity	This antibody is expected to recognise both reported isoforms (NP_065947.1; NP_663613.1).
Tested applications	Suitable for: IHC-P, WB, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Jurkat and rat spleen cell lysates. ICC/IF: HeLa and U2OS cells. IHC-P: Human kidney and liver tissues. Flow-Cyt: HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab59016 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.03 - 0.3 µg/ml. Detects a band of approximately 110 kDa (predicted molecular weight: 99 kDa). 1 hour primary incubation is recommended for this product.
ICC/IF	★☆☆☆☆ (1)	Use a concentration of 10 µg/ml.
Flow Cyt		Use a concentration of 10 µg/ml.

Target

Function	Lipid transporter involved in lipid countertransport between the endoplasmic reticulum and the plasma membrane: specifically exchanges phosphatidylserine with phosphatidylinositol 4-phosphate (PI4P), delivering phosphatidylserine to the plasma membrane in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum. Binds phosphatidylserine and PI4P in a mutually exclusive manner (PubMed:23934110, PubMed:26206935). May cooperate with NPC1 to mediate the exit of cholesterol from endosomes/lysosomes (PubMed:21220512). Binds 25-hydroxycholesterol and cholesterol (PubMed:17428193).
Tissue specificity	Ubiquitously expressed.
Sequence similarities	Belongs to the OSBP family. Contains 1 PH domain.
Cellular localization	Endoplasmic reticulum membrane. Localizes to the cortical endoplasmic reticulum at the endoplasmic reticulum-plasma membrane contact sites.

Images



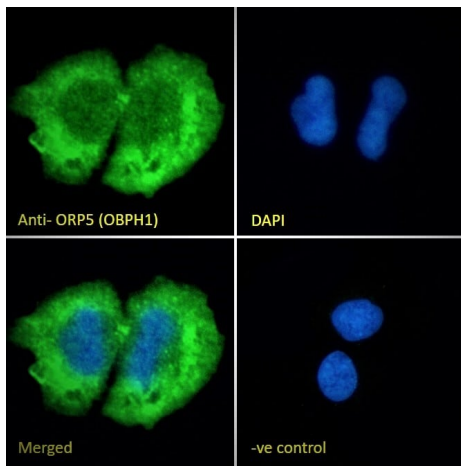
Western blot - Anti-OSBPL5/ORP5 antibody (ab59016)

Anti-OSBPL5/ORP5 antibody (ab59016) at 0.3 $\mu\text{g/ml}$ + Rat Spleen lysate in RIPA buffer at 35 μg

Predicted band size: 99 kDa

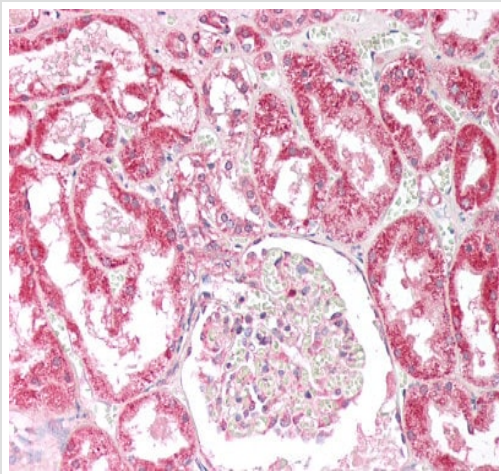
Observed band size: 100 kDa

Detected by chemiluminescence.



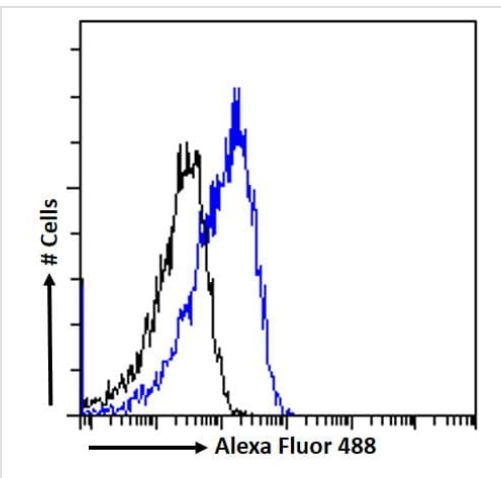
Immunocytochemistry/ Immunofluorescence - Anti-OSBPL5/ORP5 antibody (ab59016)

ab59016 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 $\mu\text{g/ml}$) followed by Alexa Fluor 488 secondary antibody (2 $\mu\text{g/ml}$), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 $\mu\text{g/ml}$) followed by Alexa Fluor 488 secondary antibody (2 $\mu\text{g/ml}$).



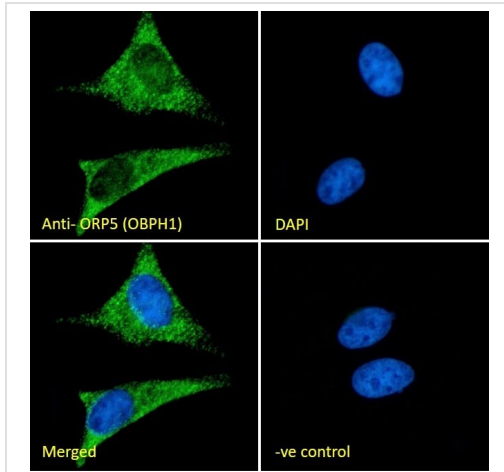
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OSBPL5/GRP5 antibody (ab59016)

ab59016 (5 μ g/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



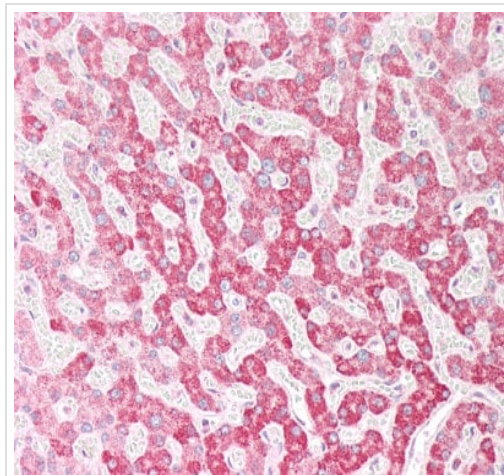
Flow Cytometry - Anti-OSBPL5/GRP5 antibody (ab59016)

ab59016 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 μ g/ml) followed by Alexa Fluor 488 secondary antibody (1 μ g/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



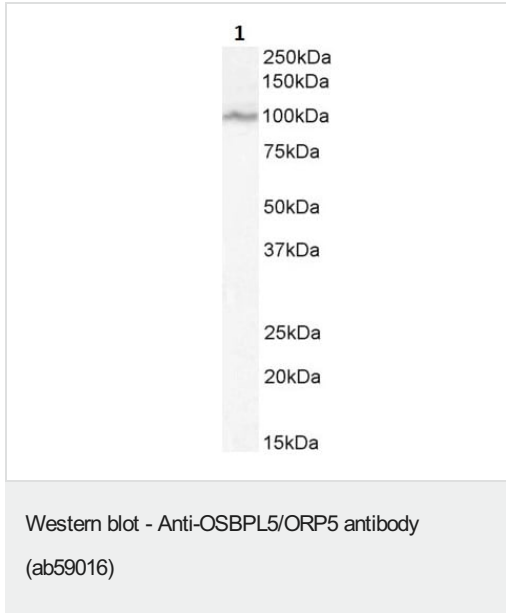
ab59016 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

Immunocytochemistry/ Immunofluorescence - Anti-OSBPL5/ORP5 antibody (ab59016)



ab59016 (5µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OSBPL5/ORP5 antibody (ab59016)



Anti-OSBPL5/ORP5 antibody (ab59016) at 0.1 µg/ml + Jurkat cell lysate in RIPA buffer at 35 µg

Predicted band size: 99 kDa

Observed band size: 100 kDa

Detected by chemiluminescence.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors