abcam

Product datasheet

Anti-USO1 antibody ab184014

2 References 3 Images

Overview

Product name	Anti-USO1 antibody
Description	Rabbit polyclonal to USO1
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant fragment within Human USO1 aa 717-962. The exact sequence is proprietary. Database link: **O60763**
Positive control	WB: Neuro2A, C8D30, NIH-3T3, Raw264.7, C2C12, HEK-293T, A431 , HeLa , HepG2 whole cell lysates, IF: A431 cells.
General notes	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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 79.99% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab184014 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
WB		1/500 - 1/3000. Predicted molecular weight: 108 kDa.
ICC/IF		1/100 - 1/1000.

Target

Function General vesicular transport factor required for intercisternal transport in the Golgi stack; it is required for transcytotic fusion and/or subsequent binding of the vesicles to the target membrane. May well act as a vesicular anchor by interacting with the target membrane and holding the vesicular and target membranes in proximity.

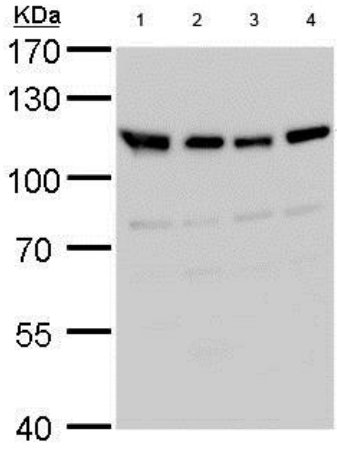
Sequence similarities Belongs to the VDP/USO1/EDE1 family.
Contains 10 ARM repeats.

Domain Composed of a globular head, an elongated tail (coiled-coil) and a highly acidic C-terminal domain.

Post-translational modifications Phosphorylated in a cell cycle-specific manner; phosphorylated in interphase but not in mitotic cells. Dephosphorylated protein associates with the Golgi membrane; phosphorylation promotes dissociation.

Cellular localization Cytoplasm > cytosol. Golgi apparatus membrane. Recycles between the cytosol and the Golgi apparatus during interphase. During interphase, the phosphorylated form is found exclusively in cytosol; the unphosphorylated form is associated with Golgi apparatus membranes.

Images



Western blot - Anti-USO1 antibody (ab184014)

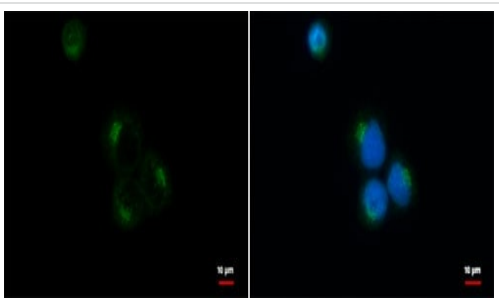
All lanes : Anti-USO1 antibody (ab184014) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell lysate
Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

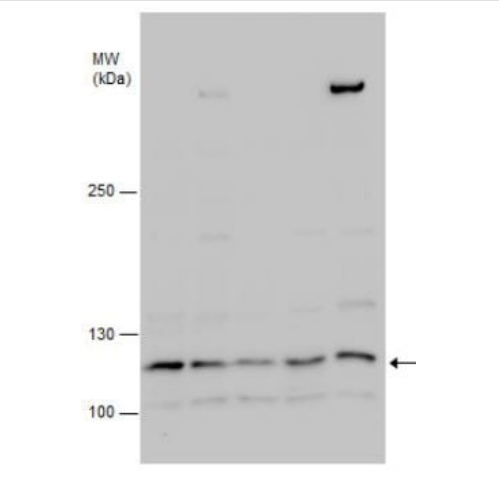
Predicted band size: 108 kDa

7.5% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-USO1 antibody (ab184014)

Immunofluorescence analysis of methanol fixed A431 (human epidermoid carcinoma cell line) cells labelling USO1 in the Golgi apparatus with ab184014 at 1/500 dilution (green) and counterstained with Hoechst 33342. Cells were fixed in 100% methanol for 5 mins.



Western blot - Anti-USO1 antibody (ab184014)

All lanes : Anti-USO1 antibody (ab184014) at 1/1000 dilution

Lane 1 : Neuro-2a (mouse neuroblastoma cell line) whole cell lysate
Lane 2 : C8-D30 (mouse astrocyte type III cerebellum cell line) whole cell lysate
Lane 3 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate
Lane 4 : RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate
Lane 5 : C2C12 (mouse myoblast cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 108 kDa

5% SDS-PAGE

- 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

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