


Product datasheet

Anti-Flotillin 2/ESA antibody [EPR14128(B)] ab181988

KO **VALIDATED** Recombinant RabMAb[®]

★★★★★ [2 Abreviews](#) [4 References](#) [4 Images](#)

Overview

Product name	Anti-Flotillin 2/ESA antibody [EPR14128(B)]
Description	Rabbit monoclonal [EPR14128(B)] to Flotillin 2/ESA
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK293, Hela, A375 and A549 cell lysates.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14128(B)
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab181988 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)	1/1000 - 1/10000. Detects a band of approximately 49 kDa (predicted molecular weight: 47 kDa).
IP		1/40.

Target

Function

May act as a scaffolding protein within caveolar membranes, functionally participating in formation of caveolae or caveolae-like vesicles. May be involved in epidermal cell adhesion and epidermal structure and function.

Tissue specificity

In skin, expressed in epidermis and epidermal appendages but not in dermis. Expressed in all layers of the epidermis except the basal layer. In hair follicles, expressed in the suprabasal layer but not the basal layer. Also expressed in melanoma and carcinoma cell lines, fibroblasts and foreskin melanocytes.

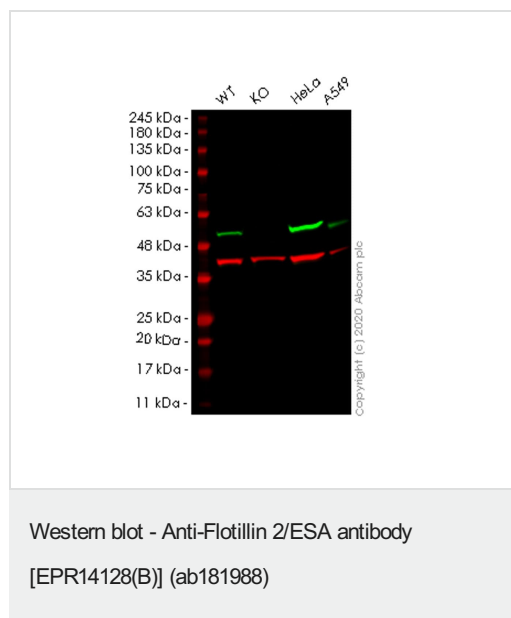
Sequence similarities

Belongs to the band 7/mec-2 family. Flotillin subfamily.

Cellular localization

Cell membrane. Membrane > caveola. Endosome. Membrane-associated protein of caveolae.

Images



All lanes : Anti-Flotillin 2/ESA antibody [EPR14128(B)]
(ab181988) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : FLOT2 knockout HEK293T cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : A549 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

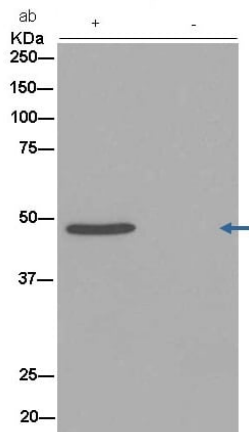
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW)
preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 47 kDa

Observed band size: 47 kDa

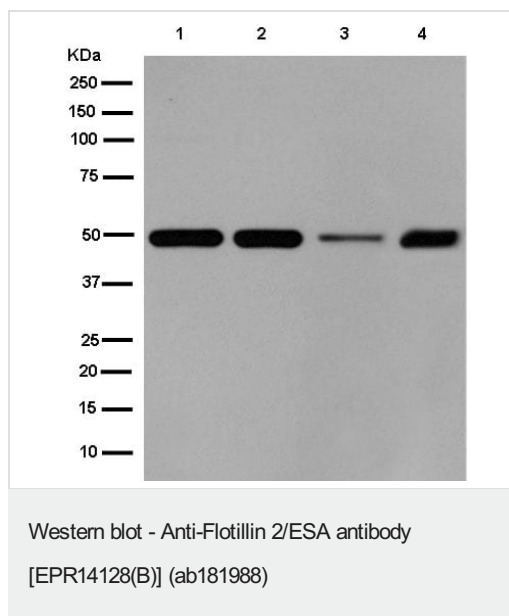
Lanes 1-4: Merged signal (red and green). Green - ab181988 observed at 47 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab181988 Anti-Flotillin 2/ESA antibody [EPR14128(B)] was shown to specifically react with Flotillin 2/ESA in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266847** (knockout cell lysate **ab257442**) was used. Wild-type and Flotillin 2/ESA knockout samples were subjected to SDS-PAGE. ab181988 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunoprecipitation - Anti-Flotillin 2/ESA antibody [EPR14128(B)] (ab181988)

Immunoprecipitation of HeLa cell lysate labeling Flotillin 2/ESA using ab181988 at a 1/40 dilution (lane 1). Lane 2 shows the negative control. Anti-Rabbit IgG (HRP) specific to the non-reduced form of IgG, was used as a secondary antibody at a dilution of 1/1500. Blocking/dilution buffer and concentration: 5% NFDm/TBST.



All lanes : Anti-Flotillin 2/ESA antibody [EPR14128(B)]
(ab181988) at 1/4000 dilution

Lane 1 : 293 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : A375 cell lysate

Lane 4 : A549 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

Predicted band size: 47 kDa

Blocking buffer and concentration: 5% NFDM/TBST

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Flotillin 2/ESA antibody [EPR14128(B)]
(ab181988)

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

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