abcam

Product datasheet

Anti-MLD antibody [EPR9680] ab185237

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-MLD antibody [EPR9680]
Description	Rabbit monoclonal [EPR9680] to MLD
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HepG2, U87-MG, 293 and T47D cell lysates.
General notes	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9680
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab185237 in the following tested applications.

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

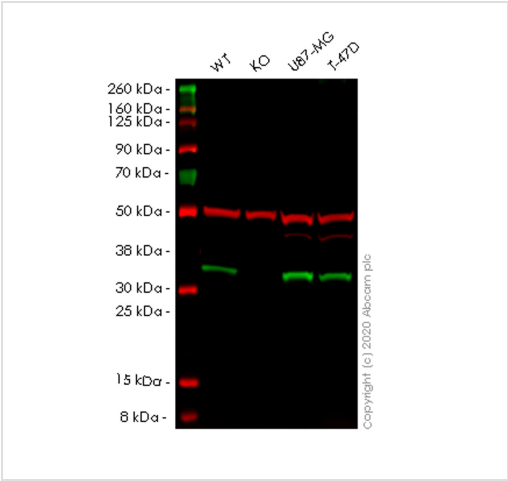
Application	Abreviews	Notes
WB	★★★★☆ **(3)**	1/1000 - 1/10000. Detects a band of approximately 34 kDa (predicted molecular weight: 38 kDa).

Target

Relevance DEGS1 is a member of the membrane fatty acid desaturase family which is responsible for inserting double bonds into specific positions in fatty acids. It contains three His containing consensus motifs that are characteristic of a group of membrane fatty acid desaturases. It has sphingolipid-delta-4-desaturase activity and converts D-erythro-sphinganine to D-erythro-sphingosine (E-sphing-4-enine).

Cellular localization Endoplasmic reticulum and Mitochondrial

Images



Western blot - Anti-MLD antibody [EPR9680] (ab185237)

All lanes : Anti-MLD antibody [EPR9680] (ab185237) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 2 : DEGS1 knockout HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 3 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate
Lane 4 : T-47D (Human ductal breast epithelial tumor cell line) whole cell lysate

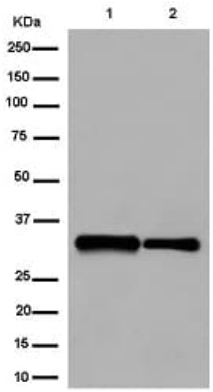
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 38 kDa
Observed band size: 38 kDa

Lanes 1-4: Merged signal (red and green). Green - ab185237 observed at 38 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab185237 Anti-MLD antibody [EPR9680] was shown to specifically react with MLD in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266481** (knockout cell lysate **ab257918**) was used. Wild-type and MLD knockout samples were subjected to SDS-PAGE. ab185237 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C 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.



Western blot - Anti-MLD antibody [EPR9680] (ab185237)

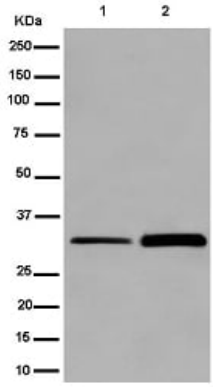
All lanes : Anti-MLD antibody [EPR9680] (ab185237) at 1/10000 dilution

Lane 1 : U87-MG (Human glioblastoma-astrocytoma epithelial cell line) cell lysate
Lane 2 : HEK-293 (Human epithelial cell line from embryonic kidney) 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: 38 kDa



Western blot - Anti-MLD antibody [EPR9680] (ab185237)

All lanes : Anti-MLD antibody [EPR9680] (ab185237) at 1/2000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : T47D 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: 38 kDa

Anti-MLD antibody [EPR9680] (ab185237)

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