

Anti-MLD antibody [EPR9681] - BSA and Azide free ab249411

KO VALIDATED Recombinant RabMAb[®]

4 Images

Overview

Product name	Anti-MLD antibody [EPR9681] - BSA and Azide free
Description	Rabbit monoclonal [EPR9681] to MLD - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: 293T, T47D and HepG2 whole cell lysate (ab7900). IHC-P: Human breast carcinoma tissue.
General notes	ab249411 is the carrier-free version of ab167169 .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

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.

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.

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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9681
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249411 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

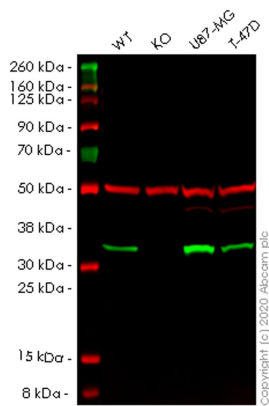
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 38 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or IP.

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 [EPR9681] - BSA and Azide free (ab249411)

All lanes : Anti-MLD antibody [EPR9681] ([ab167169](#)) 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

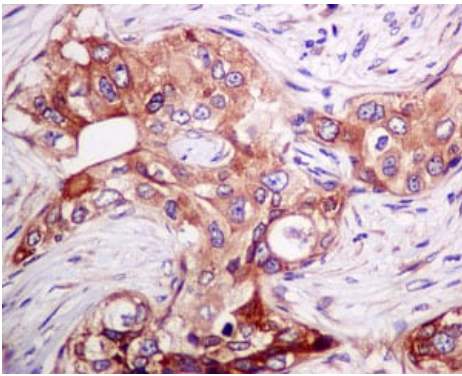
Observed band size: 38 kDa

This data was developed using [ab167169](#), the same antibody clone in a different buffer formulation.

Lanes 1-4: Merged signal (red and green). Green - [ab167169](#) observed at 38 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

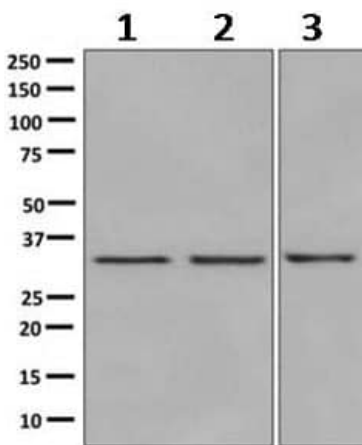
[ab167169](#) Anti-MLD antibody [EPR9681] was shown to specifically react with MLD in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line [ab266481](#) (knockout cell lysate [ab257918](#)) was used. Wild-type and MLD knockout samples were subjected to SDS-PAGE. [ab167169](#) 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MLD antibody [EPR9681] - BSA and Azide free (ab249411)

This data was developed using **ab167169**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue labeling MLD with **ab167169** at 1/50 dilution. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-MLD antibody [EPR9681] - BSA and Azide free (ab249411)

All lanes : Anti-MLD antibody [EPR9681] (**ab167169**) at 1/1000 dilution

Lane 1 : 293T cell lysates

Lane 2 : T47D cell lysates

Lane 3 : HepG2 cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 38 kDa

This data was developed using **ab167169**, the same antibody clone in a different buffer formulation.

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-MLD antibody [EPR9681] - BSA and Azide free
(ab249411)

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

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