

Product datasheet

Anti-DDAH1 antibody [EPR13921] α b181859

KO VALIDATED Recombinant RabMAb

6 Images

Overview

Product name	Anti-DDAH1 antibody [EPR13921]
Description	Rabbit monoclonal [EPR13921] to DDAH1
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P, WB, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A431, HuVEC, HepG2 and 293 cell lysates. IP: 293 cells. Flow Cyt (intra): 293 cells. IHC-P: Human hepatocellular carcinoma tissue.
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 (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13921
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab181859 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
Flow Cyt (Intra)		1/30. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000 - 1/10000. Detects a band of approximately 37 kDa (predicted molecular weight: 31 kDa).
IP		1/40.

Target

Function

Hydrolyzes N(G),N(G)-dimethyl-L-arginine (ADMA) and N(G)-monomethyl-L-arginine (MMA) which act as inhibitors of NOS. Has therefore a role in the regulation of nitric oxide generation.

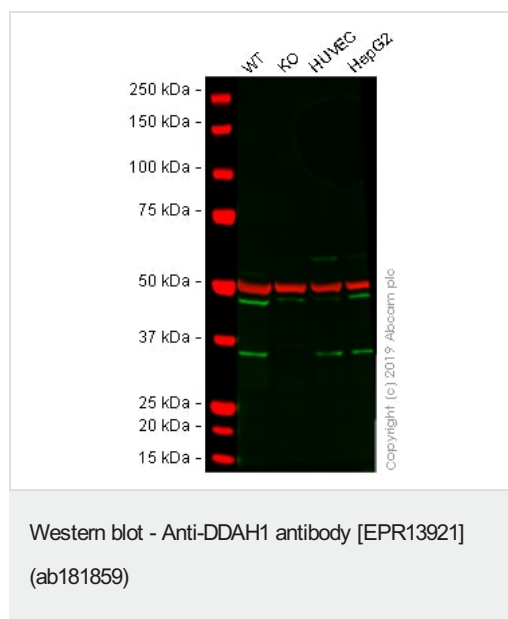
Tissue specificity

Detected in brain, liver, kidney and pancreas, and at low levels in skeletal muscle.

Sequence similarities

Belongs to the DDAH family.

Images



All lanes : Anti-DDAH1 antibody [EPR13921] (ab181859) at 1/10000 dilution

Lane 1 : Wild-type A431 cell lysate

Lane 2 : DDAH1 knockout A431 cell lysate

Lane 3 : HUVEC (Human umbilical vein endothelial cell line) whole cell lysate

Lane 4 : Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 40 µg per lane.

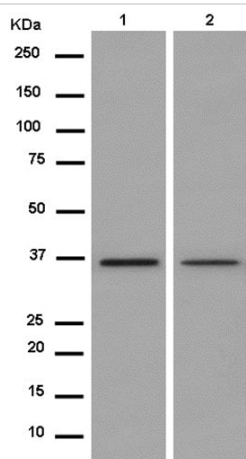
Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 37 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab181859 observed at 37 kDa. Red - loading control, **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

ab181859 was shown to react with DDAH1 in wild-type A431 cells in Western blot. Loss of signal was observed when DDAH1 knockout sample was used. Wild-type A431 and DDAH1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% Milk in TBS-T (0.1% Tween®) before incubation with ab181859 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-DDAH1 antibody [EPR13921]
(ab181859)

All lanes : Anti-DDAH1 antibody [EPR13921] (ab181859) at 1/5000 dilution

Lane 1 : 293 cell lysate

Lane 2 : HepG2 cell lysate

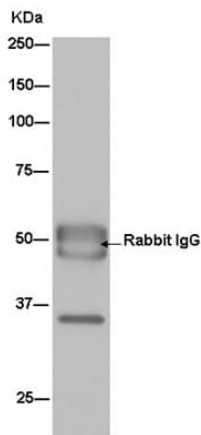
Lysates/proteins at 10 µg per lane.

Secondary

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

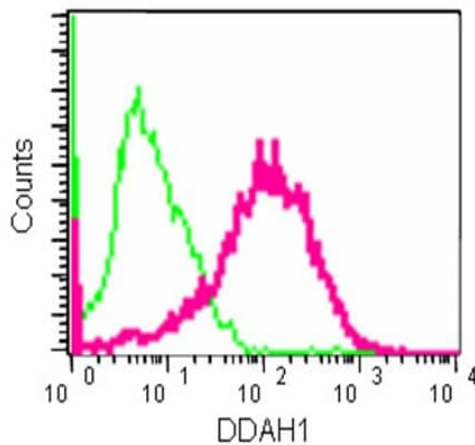
Predicted band size: 31 kDa

Observed band size: 37 kDa



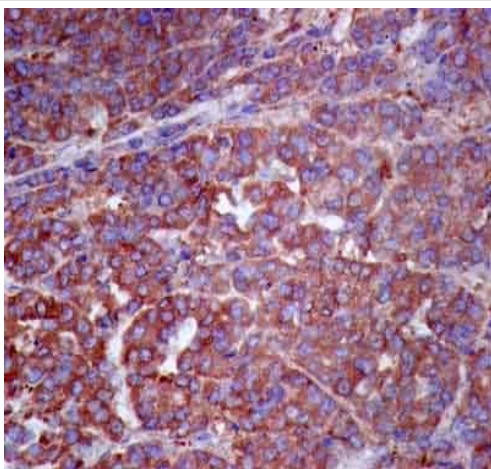
Immunoprecipitation - Anti-DDAH1 antibody
[EPR13921] (ab181859)

Western blot analysis of 293 cell lysate immunoprecipitated using ab181859 at 1/40 dilution. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate secondary antibody was used at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-DDAH1 antibody
[EPR13921] (ab181859)

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed 293 cells labeling DDAH1 with ab181859 at 1/30 dilution (red), compared to a Rabbit monoclonal IgG isotype control (green), followed by Goat anti-Rabbit IgG (FITC) secondary antibody at 1/150 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDAH1 antibody
[EPR13921] (ab181859)

Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling DDAH1 with ab181859 at 1/50 dilution, followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

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-DDAH1 antibody [EPR13921] (ab181859)

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

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