


Product datasheet

Anti-DDAH1 antibody ab108088

KO VALIDATED

[1 References](#) [3 Images](#)

Overview

Product name	Anti-DDAH1 antibody
Description	Rabbit polyclonal to DDAH1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Horse, Cow, Dog, Pig, Macaque monkey, Chinese hamster 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 200 to the C-terminus of Human DDAH1. Read Abcam's proprietary immunogen policy
Positive control	WB: Wild-type A431 cell lysate. A431, HUVEC, HepG2 and HEK293 cell lysates; Human fetal liver, liver, kidney, brain and pancreas cell lysates. IHC-P: Human kidney tissue.
General notes	<p>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.</p> <p>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</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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.4</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our

scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108088 in the following tested applications.

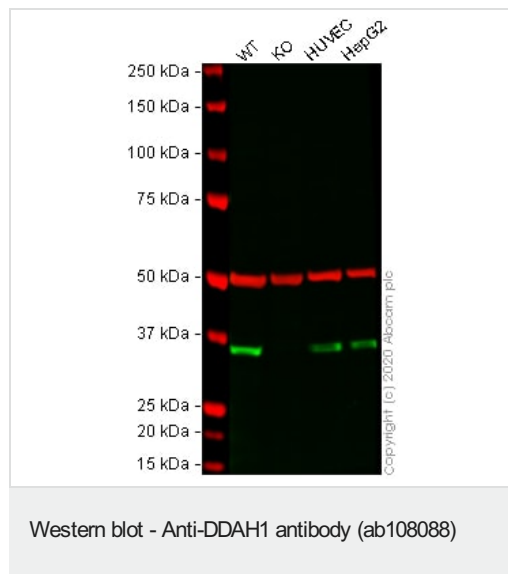
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 37 kDa (predicted molecular weight: 31 kDa).
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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 (ab108088) at 1 µg/ml

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.

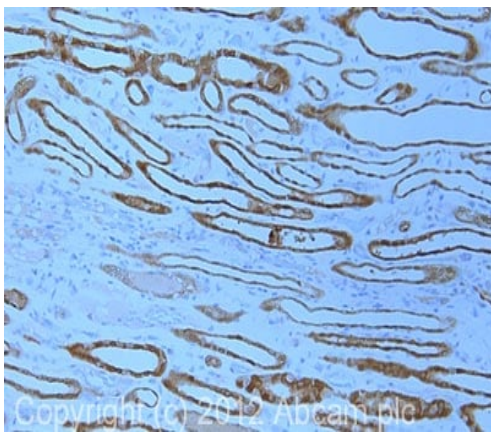
Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 35 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab108088 observed at 35 kDa. Red - loading control, **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

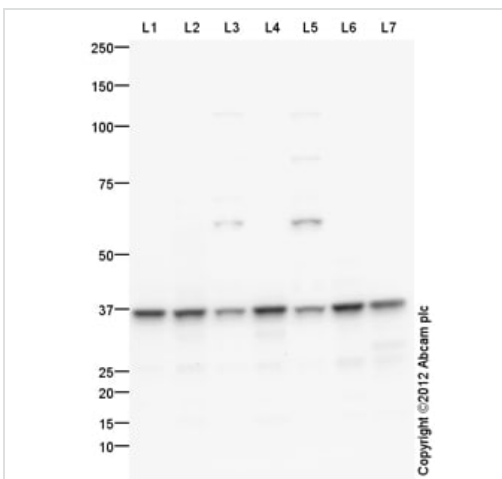
ab108088 was shown to react with DDAH1 in wild-type A431 cells in western blot. Loss of signal was observed when DDAH1 knockout sample was used. Wild-type and DDAH1 knockout A431 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween[®]) before incubation with ab108088 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at 1 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDAH1 antibody (ab108088)

IHC image of DDAH1 staining in human kidney formalin fixed paraffin embedded tissue section, performed on a Leica Bond[™] system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab108088, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-DDAH1 antibody (ab108088)

All lanes : Anti-DDAH1 antibody (ab108088) at 1 µg/ml

Lane 1 : Lung (Human) Whole Cell Lysate - fetal normal tissue (**ab30282**)

Lane 2 : Human liver tissue lysate - total protein (**ab29889**)

Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 4 : Human kidney tissue lysate - total protein (**ab30203**)

Lane 5 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 6 : Human brain tissue lysate - total protein (**ab29466**)

Lane 7 : Human pancreas tissue lysate - total protein (**ab29816**)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 37 kDa

Additional bands at: 62 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute

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

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