abcam

Product datasheet

Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control ab15895

★★★★★ 35 Abreviews 364 References 6 Images

Overview

Product name	Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control
Description	Rabbit polyclonal to VDAC1/Porin + VDAC2 + VDAC3 - Mitochondrial Loading Control
Host species	Rabbit
Specificity	This antibody detects VDAC1, VDAC2 and VDAC3.
Tested applications	**Suitable for:** IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Chicken, Cow, Dog, Human, Chinese hamster **Predicted to work with:** Rabbit, Pig, Zebrafish
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, A431,Jurkat, PC12, Rat kidney and HEK293 whole cell lysates, Mouse heart, kidney, skeletal muscle, spinal cord tissue lysate and rat brain tissue lysate. ICC/IF: HeLa cells. IHC-P: FFPE normal human heart tissue.
General notes	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. 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

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS 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 ab15895 in the following tested applications.

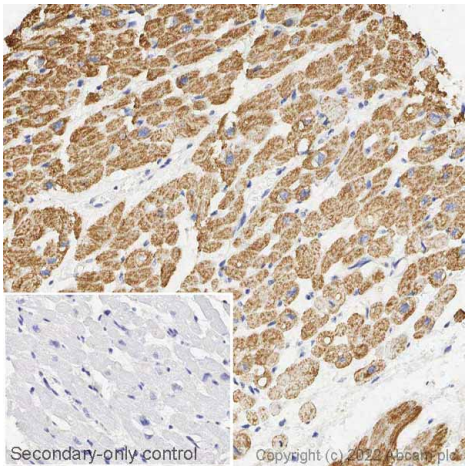
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ **(10)**	Use a concentration of 0.1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ **(20)**	Use a concentration of 1 µg/ml. Detects a band of approximately 31 kDa (predicted molecular weight: 31 kDa). Abcam recommends using BSA as the blocking agent.
ICC/IF	★★★★★ **(1)**	Use a concentration of 5 µg/ml.

Target

Cellular localization VDAC1/Porin: Mitochondrion outer membrane. Cell membrane. VDAC2: Mitochondrion outer membrane. VDAC3: Mitochondrial outer membrane.

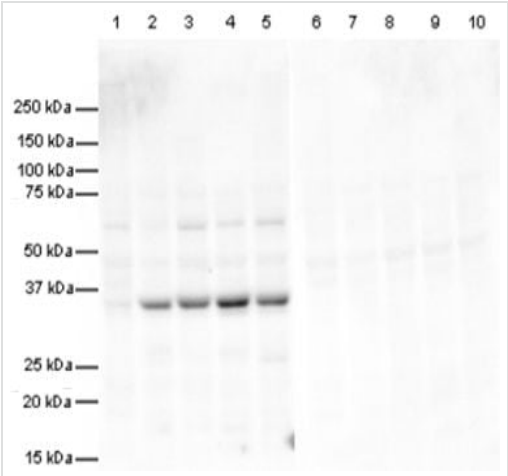
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895)

IHC image of VDAC1/Porin + VDAC2 + VDAC3 staining in a section of formalin-fixed paraffin-embedded normal human heart performed on a Leica Biosystems BOND® RX instrument. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab15895, 0.1 µg/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. The inset secondary-only control image is taken from an identical assay without primary antibody.
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.

Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.



Western blot - Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895)

All lanes : Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895) at 1 µg/ml

Lane 1 : Hela Nuclear lysate
Lane 2 : Hela cell lysate
Lane 3 : A431 cell lysate
Lane 4 : Jurkat cell lysate
Lane 5 : HEK293 cell lysate
Lane 6 : Hela Nuclear lysate with Human VDAC1/Porin peptide (**ab16131**) at 1 µg/ml
Lane 7 : Hela cell lysate with Human VDAC1/Porin peptide (**ab16131**) at 1 µg/ml
Lane 8 : A431 cell lysate with Human VDAC1/Porin peptide (**ab16131**) at 1 µg/ml
Lane 9 : Jurkat cell lysate with Human VDAC1/Porin peptide (**ab16131**) at 1 µg/ml
Lane 10 : HEK293 cell lysate with Human VDAC1/Porin peptide (**ab16131**) at 1 µg/ml

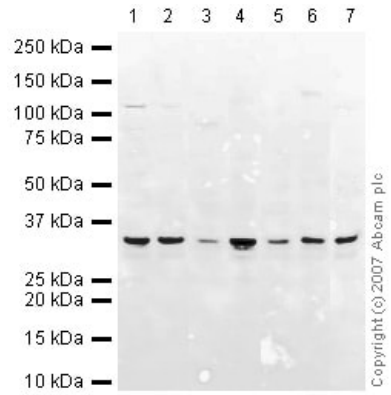
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab6721**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 31 kDa
Observed band size: 31 kDa



Western blot - Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895)

All lanes : Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895) at 1 µg/ml

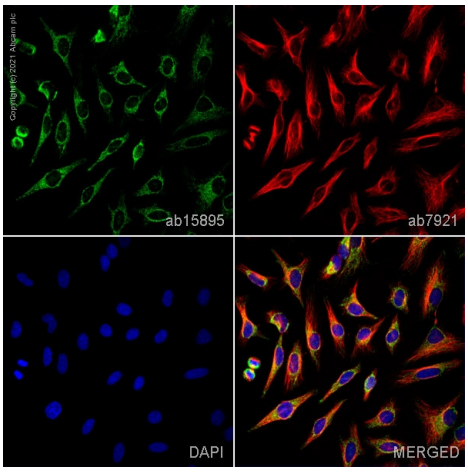
Lane 1 : Heart (Mouse) Tissue Lysate
Lane 2 : Kidney (Mouse) Tissue Lysate
Lane 3 : Mouse skeletal muscle tissue lysate - total protein (**ab29711**)
Lane 4 : Spinal Cord (Mouse) Tissue Lysate
Lane 5 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate
Lane 6 : Brain (Rat) Tissue Lysate - normal tissue
Lane 7 : Kidney (Rat) Whole Cell Lysate - normal tissue (**ab29480**)

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

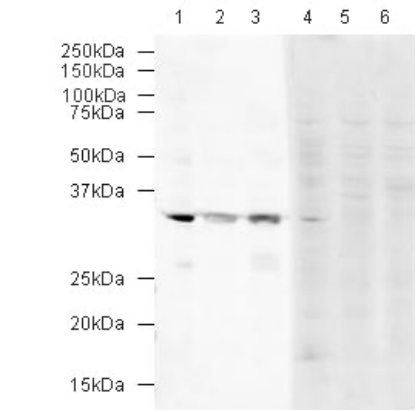
Predicted band size: 31 kDa
Observed band size: 31 kDa



Immunocytochemistry/ Immunofluorescence - Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895)

ab15895 staining VDAC1/Porin + VDAC2 + VDAC3 in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab15895 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Western blot - Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895)

All lanes : Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895) at 1 µg/ml

Lane 1 : Chicken liver cell lysate
Lane 2 : CHO K1 cell lysate
Lane 3 : MDCK cell lysate
Lane 4 : Chicken liver cell lysate with Human VDAC1/Porin peptide (**ab16131**) at 1 µg/ml
Lane 5 : CHO K1 cell lysate with Human VDAC1/Porin peptide (**ab16131**) at 1 µg/ml
Lane 6 : MDCK cell lysate with Human VDAC1/Porin peptide (**ab16131**) at 1 µg/ml

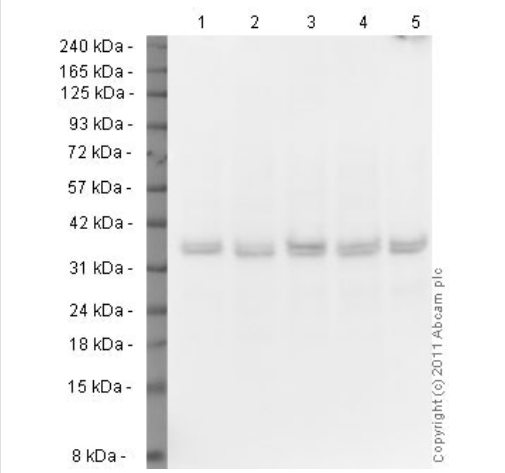
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Alexa fluor goat polyclonal anti-Rabbit IgG at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 31 kDa



Western blot - Anti-VDAC1/Porin + VDAC2 + VDAC3 antibody – Mitochondrial Loading Control (ab15895)

Western blot image using the Optiblot Reducing Electrophoresis Kit - 10 x 10 cm (4-20%) (**ab119220**) with the Prism Ultra Protein Ladder (**ab116028**) 5µl used. We recommend using our ECL substrate kit (**ab65623**) .
20ug of Lysate per lane and detection using ab15895 diluted to 1ug/ml.
Lane 1: HeLa cell lysate
Lane 2: Jurkat cell lysate
Lane 3: A431 cell lysate
Lane 4: HEK293 cell lysate
Lane 5: HepG2 cell lysate.

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