

Product datasheet

Anti-VDAC1/Porin antibody ab223570

[1 References](#) [2 Images](#)

Overview

Product name	Anti-VDAC1/Porin antibody
Description	Rabbit polyclonal to VDAC1/Porin
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human VDAC1/Porin (N terminal). Database link: P21796
Positive control	WB: HeLa whole cell lysate. ICC/IF: RKO cells.
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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab223570 in the following tested applications.

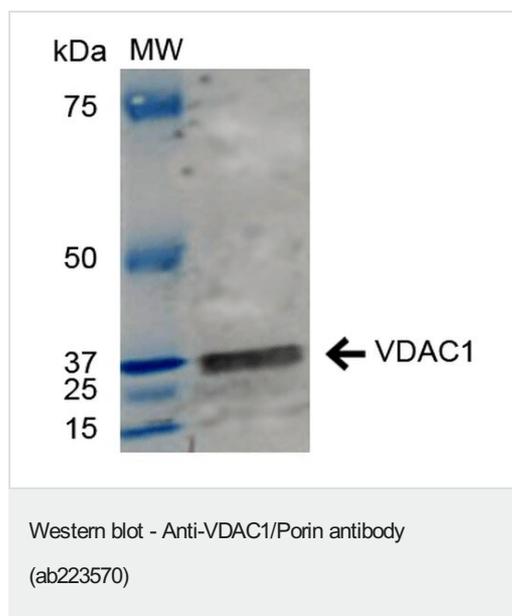
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100.
WB		1/1000. Detects a band of approximately 31 kDa (predicted molecular weight: 31 kDa).

Target

Function	Forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel at the outer mitochondrial membrane allows diffusion of small hydrophilic molecules; in the plasma membrane it is involved in cell volume regulation and apoptosis. It adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV. The open state has a weak anion selectivity whereas the closed state is cation-selective. May participate in the formation of the permeability transition pore complex (PTPC) responsible for the release of mitochondrial products that triggers apoptosis.
Tissue specificity	Heart, liver and skeletal muscle.
Sequence similarities	Belongs to the eukaryotic mitochondrial porin family.
Domain	Consists mainly of a membrane-spanning beta-barrel formed by 19 beta-strands. The helical N-terminus folds back into the pore opening and plays a role in voltage-gated channel activity.
Cellular localization	Mitochondrion outer membrane. Cell membrane.

Images



Anti-VDAC1/Porin antibody (ab223570) at 1/1000 dilution + HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Secondary

Goat Anti-Rabbit IgG HRP at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 31 kDa

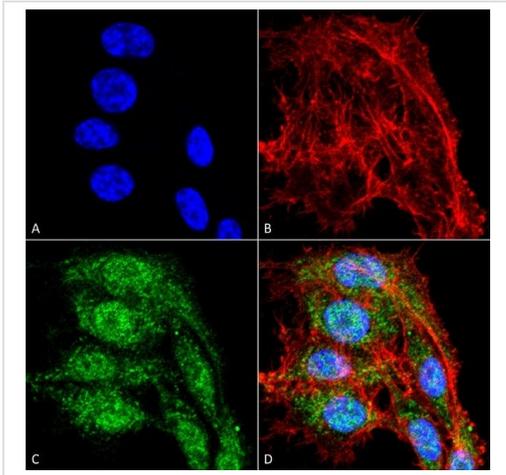
Observed band size: 31 kDa

Exposure time: 6 minutes

Blocking buffer: 5% skim milk in TBST.

Primary antibody was incubated for 2 hours, the secondary for 1

hour at RT.



4% formaldehyde-fixed RKO cells stained for VDAC1/Porin (green) using ab223570 at 1/100 dilution in ICC/IF. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1/100 for 60 min at RT.

Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1/1000, 1/5000 for 60 minutes RT, 5 minutes RT.

(A) DAPI nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ab223570 (D) Merge.

Immunocytochemistry/ Immunofluorescence - Anti-VDAC1/Porin antibody (ab223570)

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

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