

Product datasheet

Anti-VDAC1/Porin antibody ab223570

2 Images

Overview

<b>Product name</b>	Anti-VDAC1/Porin antibody
<b>Description</b>	Rabbit polyclonal to VDAC1/Porin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human VDAC1/Porin (N terminal). Database link: <a href="#">P21796</a>
<b>Positive control</b>	WB: HeLa whole cell lysate. ICC/IF: RKO cells.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab223570** in the following tested applications.

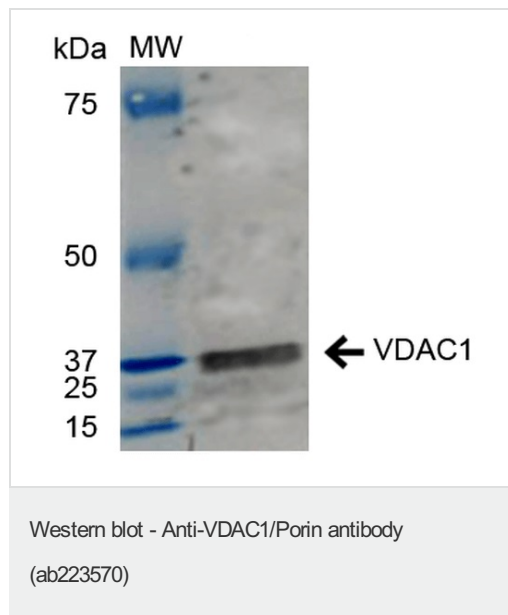
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Heart, liver and skeletal muscle.
<b>Sequence similarities</b>	Belongs to the eukaryotic mitochondrial porin family.
<b>Domain</b>	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.
<b>Cellular localization</b>	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.

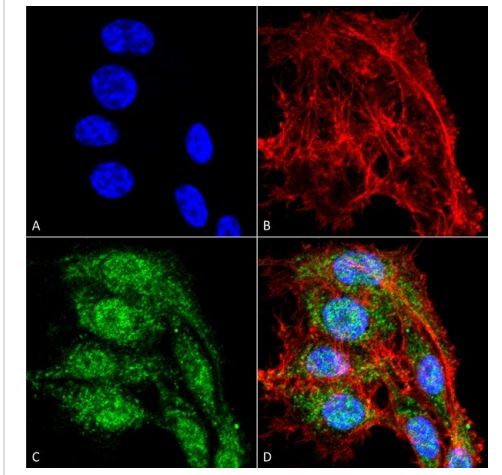
**Predicted band size:** 31 kDa

**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.



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

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.

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

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