

**Anti-PORIN Antibody**  
**Rabbit polyclonal antibody to PORIN**  
**Catalog # AP60793**

**Specification**

**Anti-PORIN Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P21796</a>
Other Accession	<a href="#">Q60932</a>
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Pig, Bovine, SARS
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30773

**Anti-PORIN Antibody - Additional Information**

**Gene ID** 7416

**Other Names**

VDAC; Voltage-dependent anion-selective channel protein 1; VDAC-1; hVDAC1; Outer mitochondrial membrane protein porin 1; Plasmalemmal porin; Porin 31HL; Porin 31HM

**Target/Specificity**

Recognizes endogenous levels of PORIN protein.

**Dilution**

WB~~WB (1/500 - 1/1000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-PORIN Antibody - Protein Information**

**Name** VDAC1

**Synonyms** VDAC

**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

(PubMed:<a href="http://www.uniprot.org/citations/11845315" target="\_blank">11845315</a>, PubMed:<a href="http://www.uniprot.org/citations/18755977" target="\_blank">18755977</a>, PubMed:<a href="http://www.uniprot.org/citations/20230784" target="\_blank">20230784</a>, PubMed:<a href="http://www.uniprot.org/citations/8420959" target="\_blank">8420959</a>). Binds various signaling molecules, including the sphingolipid ceramide, the phospholipid phosphatidylcholine, and the sterols cholesterol and oxysterol (PubMed:<a href="http://www.uniprot.org/citations/31015432" target="\_blank">31015432</a>). In depolarized mitochondria, acts downstream of PRKN and PINK1 to promote mitophagy or prevent apoptosis; polyubiquitination by PRKN promotes mitophagy, while monoubiquitination by PRKN decreases mitochondrial calcium influx which ultimately inhibits apoptosis (PubMed:<a href="http://www.uniprot.org/citations/32047033" target="\_blank">32047033</a>). May participate in the formation of the permeability transition pore complex (PTPC) responsible for the release of mitochondrial products that triggers apoptosis (PubMed:<a href="http://www.uniprot.org/citations/15033708" target="\_blank">15033708</a>, PubMed:<a href="http://www.uniprot.org/citations/25296756" target="\_blank">25296756</a>). May mediate ATP export from cells (PubMed:<a href="http://www.uniprot.org/citations/30061676" target="\_blank">30061676</a>).

#### Cellular Location

Mitochondrion outer membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Membrane raft; Multi-pass membrane protein

#### Tissue Location

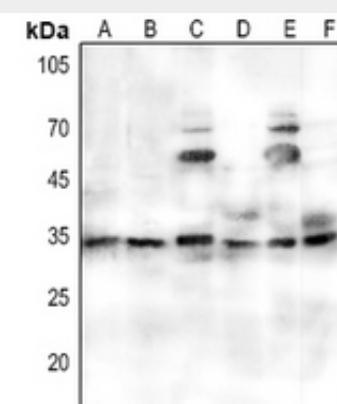
Expressed in erythrocytes (at protein level) (PubMed:27641616). Expressed in heart, liver and skeletal muscle (PubMed:8420959).

#### Anti-PORIN Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-PORIN Antibody - Images



Western blot analysis of PORIN expression in HEK293T (A), Hela (B), mouse brain (C), mouse kidney (D), rat brain (E), rat kidney (F) whole cell lysates.

**Anti-PORIN Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human PORIN. The exact sequence is proprietary.