

# **VDAC2 Antibody (Center) Blocking Peptide**

Synthetic peptide Catalog # BP18807c

### **Specification**

## VDAC2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession

P45880

# VDAC2 Antibody (Center) Blocking Peptide - Additional Information

#### **Gene ID 7417**

#### **Other Names**

Voltage-dependent anion-selective channel protein 2, VDAC-2, hVDAC2, Outer mitochondrial membrane protein porin 2, VDAC2

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### VDAC2 Antibody (Center) Blocking Peptide - Protein Information

### Name VDAC2

## **Function**

Forms a channel through the mitochondrial outer membrane that allows diffusion of small hydrophilic molecules (By similarity). The channel adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV (By similarity). The open state has a weak anion selectivity whereas the closed state is cation-selective (By similarity). Binds various lipids, 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>). Binding of ceramide promotes the mitochondrial outer membrane permeabilization (MOMP) apoptotic pathway (PubMed:<a href="http://www.uniprot.org/citations/31015432" target="\_blank">31015432</a>).

#### **Cellular Location**

Mitochondrion outer membrane. Membrane. Note=May localize to non-mitochondrial membranes.

## **Tissue Location**

Expressed in erythrocytes (at protein level) (PubMed:27641616). Expressed in all tissues examined (PubMed:8420959)



## **VDAC2 Antibody (Center) Blocking Peptide - Protocols**

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

#### Blocking Peptides

VDAC2 Antibody (Center) Blocking Peptide - Images

# VDAC2 Antibody (Center) Blocking Peptide - Background

This gene encodes a member of the voltage-dependent anionchannel pore-forming family of proteins that are considered themain pathway for metabolite diffusion across the mitochondrialouter membrane. The encoded protein is also thought to be involved in the mitochondrial apoptotic pathway via regulation of BCL2-antagonist/killer 1 protein activity. Pseudogenes have been identified on chromosomes 1, 2, 12 and 21, and alternative splicing results in multiple transcript variants.

#### VDAC2 Antibody (Center) Blocking Peptide - References

De Pinto, V., et al. Biochim. Biophys. Acta 1797 (6-7), 1268-1275 (2010): Liu, B., et al. Biochem. Biophys. Res. Commun. 378(3):366-370(2009) Valis, K., et al. Mol. Cell. Biochem. 311 (1-2), 225-231 (2008): Olsen, J.V., et al. Cell 127(3):635-648(2006) Yoo, B.C., et al. Electrophoresis 22(1):172-179(2001)