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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:31015432). Binding of ceramide promotes the mitochondrial outer membrane permeabilization (MOMP) apoptotic pathway (PubMed:31015432).

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)

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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 involvedin the mitochondrial apoptotic pathway via regulation ofBCL2-antagonist/killer 1 protein activity. Pseudogenes have beenidentified on chromosomes 1, 2, 12 and 21, and alternative splicingresults 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)