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VDAC2 Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS12224

Specification

VDAC2 Antibody (C-Terminus) - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P45880
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**32kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **E~~N/A**

VDAC2 Antibody (C-Terminus) - Additional Information

Gene ID 7417

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

Target/Specificity
Human VDAC2.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
VDAC2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

VDAC2 Antibody (C-Terminus) - Protein Information

Name VDAC2 (HGNC:12672)

Function
Non-selective voltage-gated ion channel that mediates the transport of anions and cations through the mitochondrion outer membrane and plasma membrane (PubMed:8420959). The channel adopts an open conformation at zero mV and a closed conformation at both positive and negative potentials (PubMed:8420959). There are two populations of channels; the main that functions in a lower open-state conductance with lower ion selectivity, that switch, in a voltage-dependent manner, from the open to a low-conducting 'closed' state and the other that has a normal ion selectivity in the typical high conductance, 'open' state (PubMed:<a

href="http://www.uniprot.org/citations/8420959" target="_blank">8420959). 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.

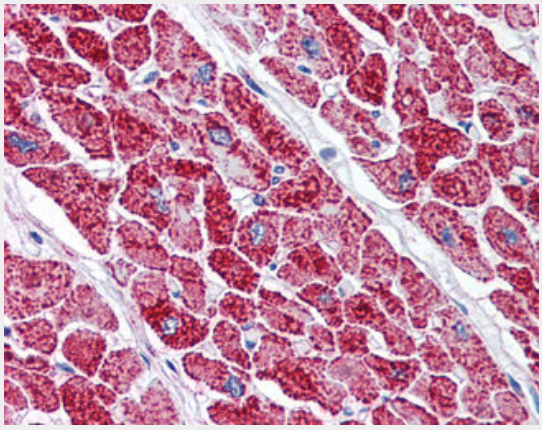
Tissue Location
Expressed in erythrocytes (at protein level) (PubMed:27641616). Expressed in all tissues examined (PubMed:8420959)

VDAC2 Antibody (C-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VDAC2 Antibody (C-Terminus) - Images



Anti-VDAC2 antibody IHC of human heart.

VDAC2 Antibody (C-Terminus) - Background

Forms a channel through the mitochondrial outer membrane that allows diffusion of small hydrophilic molecules. The channel 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.

VDAC2 Antibody (C-Terminus) - References

Ha H.,et al.J. Biol. Chem. 268:12143-12149(1993).

Blachly-Dyson E.,et al.J. Biol. Chem. 268:1835-1841(1993).
Decker W.K.,et al.Mamm. Genome 10:1041-1042(1999).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Deloukas P.,et al.Nature 429:375-381(2004).