

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:8420959).

[8420959](http://www.uniprot.org/citations/8420959)). Binds various lipids, including the sphingolipid ceramide, the phospholipid phosphatidylcholine, and the sterols cholesterol and oxysterol (PubMed:[31015432](http://www.uniprot.org/citations/31015432)). Binding of ceramide promotes the mitochondrial outer membrane permeabilization (MOMP) apoptotic pathway (PubMed:[31015432](http://www.uniprot.org/citations/31015432)).

Cellular Location

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

Tissue Location

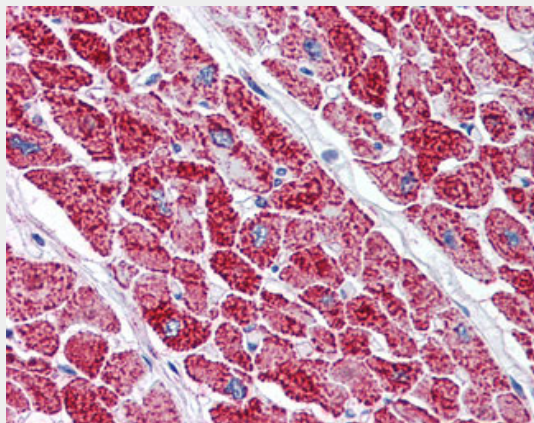
Expressed in erythrocytes (at protein level) (PubMed:27641616). Expressed in all tissues examined (PubMed:8420959)

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 Cytometry](#)
- [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).