

Product datasheet for **AP17825PU-N**

VDAC1 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	Peptide ELISA: 1/1,000. Western blotting: 1/1,000. Flow cytometry: 1/10-1/50. Immunohistochemistry on Paraffin Sections: 1/50-1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human VDAC1.
Specificity:	This antibody recognizes VDAC-1.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Purified through a protein A column, followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	voltage dependent anion channel 1
Database Link:	Entrez Gene 22333 Mouse Entrez Gene 7416 Human P21796



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Background:

VDAC1 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. The protein may participate in the formation of the permeability transition pore complex (PTPC) responsible for the release of mitochondrial products that triggers apoptosis.

Synonyms:

VDAC, Porin 31HL, Porin 31HM, Mitochondria marker

Note:

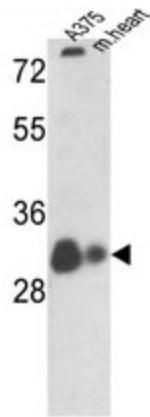
Calculated MW: 30773 Da

Protein Families:

Ion Channels: Other

Protein Pathways:

Calcium signaling pathway, Huntington's disease, Parkinson's disease

Product images:

Western blot analysis of VDAC1 Antibody (N-term) in A375 cell line and mouse heart tissue lysates (35ug/lane). VDAC1 (arrow) was detected using the purified Pab.