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VDAC3 Rabbit pAb

Catalog # AP99593

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9Y277
Other Accession	Q9Y277
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30659
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human VDAC3
Epitope Specificity	101-200/283
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the eukaryotic mitochondrial porin family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a voltage-dependent anion channel (VDAC), and belongs to the mitochondrial porin family. VDACs are small, integral membrane proteins that traverse the outer mitochondrial membrane and conduct ATP and other small metabolites. They are known to bind several kinases of intermediary metabolism, thought to be involved in translocation of adenine nucleotides, and are hypothesized to form part of the mitochondrial permeability transition pore, which results in the release of cytochrome c at the onset of apoptotic cell death. Alternatively transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]

Additional Information

Gene ID	7419
Other Names	VDAC1P5; VDAC5P; HD-VDAC3; VDAC-3; VDAC3_BOVIN; VDAC3; Outer mitochondrial membrane protein porin 3; VDAC3_HUMAN; hVDAC3; VDAC3_MOUSE; mVDAC3; VDAC3_RABIT; VDAC3_RAT; rVDAC3; voltage dependent anion channel 3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	VDAC3 (HGNC:12674)
Function	Non-selective voltage-gated ion channel that mediates the transport of anions and cations through the mitochondrion outer membrane and plasma membrane (PubMed:31935282). Forms a high-conducting channel with a stable open state and a voltage-induced closure with a mild preference for anions over cations (PubMed:31935282). Involved in male fertility and sperm mitochondrial sheath formation (By similarity).
Cellular Location	Mitochondrion outer membrane {ECO:0000250|UniProtKB:P21796}. Membrane Note=May localize to non-mitochondrial membranes
Tissue Location	Expressed in erythrocytes (at protein level) (PubMed:27641616). Widely expressed. Highest in testis (PubMed:9781040).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.