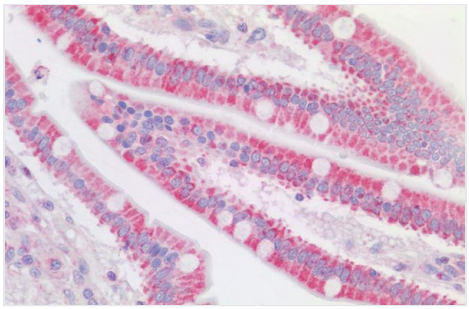
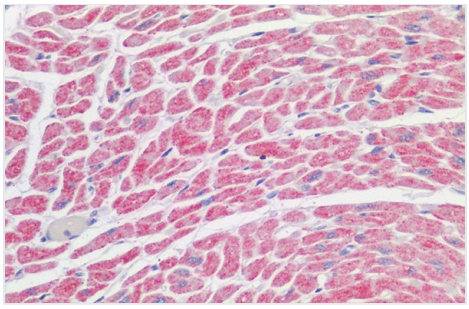
VDAC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

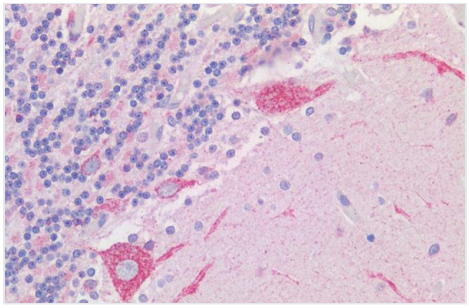
Product Name	VDAC2, Polyclonal Antibody
Full Product Name	VDAC2 Rabbit anti-Human Polyclonal (N-Terminus) Antibody
Product Gene Name	anti-VDAC2 antibody
Product Synonym Names	IHC-plus VDAC2 Antibody (N-Terminus); VDAC2; B-36 vdac; HVDAC2; Porin-2; VDAC-2; Vdac6
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS, 0.1% Sodium Azide
Purity/Purification	Immunoaffinity purified
Concentration	1mg/ml (lot specific)
Preparation and Storage	Aliquot and store undiluted at -20 degree C or below for up to 1 year. Can be stored undiluted at 4 degree C for up to 1 month. Avoid freeze-thaw cycles.
Molecular Weight	30,412 Da
OMIM	193245
3D Structure	ModBase 3D Structure for P45880
Target	Human VDAC2
Immunogen	Synthetic peptide from the N-terminus of human VDAC2 (P45880)
Conjugation	Unconjugated
Epitope	N-Terminus
Family	Ion Channel
Subfamily	VDAC porin
Applications Tested/Suitable for anti-VDAC2 antibody	Immunohistochemistry-Paraffin (IHC-P)
Related Product Information for anti-VDAC2 antibody	VDAC2 antibody is an unconjugated rabbit polyclonal antibody to VDAC2 (N-Terminus) from human. Validated for IHC. Tested on 20 paraffin-embedded human tissues.
Other Notes	Small volumes of anti-VDAC2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VDAC2 purchase	MBS2403878 is an antibody targeting VDAC2. Also known as VDAC2 Rabbit anti-Human Polyclonal (N-Terminus) Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-VDAC2 antibody
VDAC2 Antibody-Human Small Intestine: Formalin-Fixed, Paraffin-Embedded (FFPE) HIER using 10 mM sodium citrate buffer pH 6.0



Immunohistochemistry (IHC) of anti-VDAC2 antibody
VDAC2 Antibody-Human Heart: Formalin-Fixed, Paraffin-Embedded (FFPE) HIER using 10 mM sodium citrate buffer pH 6.0



Immunohistochemistry (IHC) of anti-VDAC2 antibody
VDAC2 Antibody-Human Brain, Cerebellum: Formalin-Fixed, Paraffin-Embedded (FFPE) HIER using 10 mM sodium citrate buffer pH 6.0

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VDAC2. It may not necessarily be applicable to this product.

NCBI GI #	42476281
NCBI GeneID	7417
NCBI Accession #	NP_003366.2
UniProt Primary Accession #	P45880
UniProt Secondary Accession #	Q5VWK1; Q5VWK3; Q6IB40; Q7L3J5; Q9BWK8; Q9Y5I6
UniProt Related Accession #	P45880
GenBank Nucleotide #	NM_003375
NCBI Official Full Name	voltage-dependent anion-selective channel protein 2 isoform 2
NCBI Official Synonym Full Names	voltage-dependent anion channel 2
NCBI Official Symbol	VDAC2
NCBI Official Synonym Symbols	POR
UniProt Protein Name	Voltage-dependent anion-selective channel protein 2
UniProt Synonym Protein Names	Outer mitochondrial membrane protein porin 2
Protein Family	Mitochondrial outer membrane protein porin
UniProt Gene Name	VDAC2
UniProt Synonym Gene Names	VDAC-2; hVDAC2
UniProt Entry Name	VDAC2_HUMAN
NCBI Protein Information	voltage-dependent anion-selective channel protein 2; outer mitochondrial membrane protein porin 2

NCBI Summary for VDAC2	This gene encodes a member of the voltage-dependent anion channel pore-forming family of proteins that are considered the main pathway for metabolite diffusion across the mitochondrial outer membrane. The encoded protein is also thought to be involved in the mitochondrial apoptotic pathway via regulation of BCL2-antagonist/killer 1 protein activity. Pseudogenes have been identified on chromosomes 1, 2, 12 and 21, and alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]
UniProt Comments for VDAC2	VDAC2: 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. Interacts with hexokinases. Expressed in all tissues examined. Belongs to the eukaryotic mitochondrial porin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Mitochondrial; Channel, misc. Chromosomal Location of Human Ortholog: 10q22 Cellular Component: pore complex; mitochondrial outer membrane; mitochondrion; mitochondrial inner membrane; nucleus Molecular Function: protein binding; nucleotide binding; voltage-gated anion channel activity; porin activity Biological Process: negative regulation of protein polymerization; transmembrane transport; anion transport
Research Articles on VDAC2	**1.** GSK-3beta translocates from the cytosol to mitochondria in a kinase activity- and VDAC2-dependent manner in which an N-terminal domain of GSK-3beta may function as a mitochondrial targeting sequence
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