

VDAC/Porin Polyclonal Antibody | anti-VDAC/Porin antibody

Anti-VDAC/Porin Antibody

CATALOG # AAA46260	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

VDAC/Porin; Polyclonal Antibody; Anti-VDAC/Porin Antibody; Voltage-dependent anion-selective channel protein 1; N2441; OMP2; POR1; hVDAC1; MGC111064; Mitochondrial Porin; Outer mitochondrial membrane protein porin 1; Plasmalemmal porin; Porin 31 HL; Porin 31HL; Porin 31HM; VDAC 1; VDAC; VDAC-1; VDAC1; VDAC1_HUMAN; Voltage dependent anion channel 1; Voltage dependent anion selective channel protein 1; YNL055C; YNL2441C antibody; voltage-dependent anion channel 1; anti-VDAC/Porin antibody

PRODUCT SPECIFICATIONS

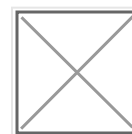
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	283
Applicable Applications for anti-VDAC/Porin antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human VDAC/Porin (154-181aa QMNFETAKSRVTQSNFAVGKYKTDEFQLH), different from the related mouse and rat sequences by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



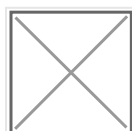
IHC (Immunohistochemistry)

Anti-VDAC Picoband antibody, AAA46260, IHC(P)IHC(P): Human Intestinal Cancer Tissue



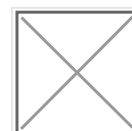
IHC (Immunohistochemistry)

Anti-VDAC Picoband antibody, AAA46260, IHC(P)IHC(P): Rat Cardiac Muscle Tissue



IHC (Immunohistochemistry)

Anti-VDAC Picoband antibody, AAA46260, IHC(P)IHC(P): Mouse Cardiac Muscle Tissue



WB (Western Blot)

Anti-VDAC Picoband antibody, AAA46260, Western blottingAll lanes: Anti VDAC (AAA46260) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Mouse Liver Tissue Lysate at 50ugLane 3: SMMC Whole Cell Lysate at 40ugPredicted bind size: 31KDObserved bind size: 31KD

ADDITIONAL INFORMATION

Related Product Information for anti-VDAC/Porin antibody	Description: Rabbit IgG polyclonal antibody for Voltage-dependent anion-selective channel protein 1(VDAC1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: The voltage-dependent anion channel (VDAC) of the outer mitochondrial membrane is a small, abundant outer membrane pore-forming protein found in the outer membranes of all eukaryotic mitochondria. The VDAC protein is thought to form the major pathway for movement of adenine nucleotides through the outer membrane and to be the mitochondrial binding site for hexokinase and glycerol kinase. At low transmembrane voltage, VDAC is open for anions such as phosphate, chloride, and adenine nucleotides. At higher transmembrane voltage, VDAC functions as a selective channel for cations and uncharged molecules. These features make VDAC likely to play a role in mitochondrial energy metabolism. Huizing et al. studied by Northern and Western blot analyses the human tissue distribution of mitochondrial transmembrane metabolite carriers. They found that VDAC1 mRNA has a ubiquitous distribution, with most pronounced expression in heart, liver, and skeletal muscle, whereas the VDAC2 isoform appears to be expressed only in the heart.
References	1. Blachly-Dyson, E., Zambronicz, E. B., Yu, W. H., Adams, V., McCabe, E. R. B., Adelman, J., Colombini, M., Forte, M. Cloning and functional expression in yeast of two human isoforms of the outer mitochondrial membrane channel, the voltage-dependent anion channel. <i>J. Biol. Chem.</i> 268: 1835-1841, 1993. 2. Geisler, S., Holmstrom, K. M., Skujat, D., Fiesel, F. C., Rothfuss, O. C., Kahle, P. J., Springer, W. PINK1/Parkin-mediated mitophagy is dependent on VDAC1 and p62/SQSTM1. <i>Nature Cell Biol.</i> 12: 119-131, 2010. 3. Huizing, M., Ruitenbeek, W., van den Heuvel, L. P., Dolce, V., Iacobazzi, V., Smeitink, J. A. M., Palmieri, F., Trijbels, J. M. F. Human mitochondrial transmembrane metabolite carriers: tissue distribution and its implication for mitochondrial disorders. <i>J. Bioenerg. Biomembr.</i> 30: 277-284, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507879
NCBI GeneID	7416
NCBI Accession #	NP_003365.1
NCBI GenBank Nucleotide #	NM_003374.2
UniProt Accession #	P21796; Q5FVE7; Q9UIQ5; Q9UPL0; B3KVK4; D3DQ93
Molecular Weight	30,773 Da
NCBI Official Full Name	voltage-dependent anion-selective channel protein 1
NCBI Official Synonym Full Names	voltage dependent anion channel 1
NCBI Official Symbol	VDAC1
NCBI Official Synonym Symbols	PORIN; VDAC-1
NCBI Protein Information	voltage-dependent anion-selective channel protein 1
UniProt Protein Name	Voltage-dependent anion-selective channel protein 1
UniProt Gene Name	VDAC1
UniProt Synonym Gene Names	VDAC; VDAC-1; hVDAC1
UniProt Entry Name	VDAC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/vdac-porin-antibody-immunohistochemistry-western-blot-elisa/46260>