

Human Voltage Dependent Anion Channel Protein 1 (VDAC1) ELISA Kit | VDAC1 elisa kit

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CATALOG #
AAA187193

REACTIVITY
Human

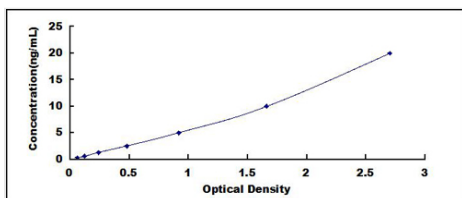
PRODUCT SYNONYMS

Voltage Dependent Anion Channel Protein 1 (VDAC1); Human Voltage Dependent Anion Channel Protein 1 (VDAC1) ELISA Kit; PORIN-31-HL; Porin 31HM; Plasmalemmal porin; Outer mitochondrial membrane protein porin 1; Voltage-dependent anion-selective channel protein 1; VDAC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Voltage Dependent Anion Channel Protein 1 (VDAC1). No significant cross-reactivity or interference between Voltage Dependent Anion Channel Protein 1 (VDAC1) and analogues was observed.
Sequence Length	276
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.131ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Voltage Dependent Anion Channel Protein 1 (VDAC1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Voltage Dependent Anion Channel Protein 1 (VDAC1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VDAC1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Voltage Dependent Anion Channel Protein 1 (VDAC1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Voltage Dependent Anion Channel Protein 1 (VDAC1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Voltage Dependent Anion Channel Protein 1 (VDAC1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Voltage Dependent Anion Channel Protein 1 (VDAC1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15232074
NCBI GeneID	820914
NCBI Accession #	NP_186777.1
NCBI GenBank Nucleotide #	NM_110994.4
UniProt Accession #	Q9SRH5
Molecular Weight	29,425 Da
NCBI Official Full Name	voltage dependent anion channel 1
NCBI Official Symbol	VDAC1
NCBI Official Synonym Symbols	5076; ARABIDOPSIS THALIANA VOLTAGE DEPENDENT ANION CHANNEL 1; ATVDAC1; T22N4.9; T22N4_9; voltage dependent anion channel 1
NCBI Protein Information	voltage dependen
UniProt Protein Name	Mitochondrial outer membrane protein porin 1
UniProt Gene Name	VDAC1
UniProt Synonym Gene Names	AtVDAC1; VDAC-1

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.