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

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CATALOG #	REACTIVITY
AAA330287	**Human**

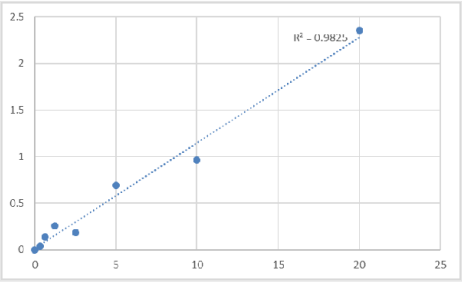
PRODUCT SYNONYMS

Voltage-Dependent Anion-Selective Channel Protein 1 (VDAC1); Human Voltage-Dependent Anion-Selective Channel Protein 1 (VDAC1) ELISA Kit; VDAC1; MGC111064; PORIN; PORIN-31-HL; OTTHUMP00000159381; OTTHUMP00000165946; VDAC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Voltage-dependent anion-selective channel protein 1 (VDAC1) ELISA Kit has high sensitivity and excellent specificity for detection of Human VDAC1. No significant cross-reactivity or interference between Human VDAC1 and analogues was observed.
Sequence Length	283
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)
Fig.1. Human Voltage-dependent anion-selective channel protein 1 (VDAC1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for VDAC1 elisa kit	Description: This Human Voltage-dependent anion-selective channel protein 1 (VDAC1) ELISA Kit employs a two-site sandwich ELISA to quantitate VDAC1 in samples. An antibody specific for VDAC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any VDAC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VDAC1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VDAC1 bound in the initial step. The color development is stopped and the intensity of the color is measured. 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. Mitochondria expressing VDAC1 were capable of specifically binding hexokinase, whereas mitochondria expressing VDAC2 only bound hexokinase at background levels. Each human cDNA was expressed in essentially all human cell lines and tissues examined.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507879
NCBI GeneID	7416
NCBI Accession #	NP_003365.1
NCBI GenBank Nucleotide #	NP_003365.1
UniProt Accession #	P21796
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/human-elisa-kits/voltage-dependent-anion-selective-channel-protein-1-vdac1/330287