

Human Voltage-dependent anion-selective channel protein 1 (VDAC1) ELISA Kit



Catalog No: #EK5879

Orders: order@signalwayantibody.com

Package Size: #EK5879-1 48T #EK5879-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Voltage-dependent anion-selective channel protein 1 (VDAC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC111064; PORIN; PORIN-31-HL; OTTHUMP00000159381 OTTHUMP00000165946
Accession No.	P21796
Uniprot	P21796
GeneID	7416;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.131 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay 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 anyVDAC1 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.**Product Overview:**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.

Note: This product is for in vitro research use only