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Datasheet for ABIN5518602

VDAC1 ELISA Kit





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Quantity:	96 tests
Target:	VDAC1
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.156 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of VDAC1 in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Sample Type:	Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of this index.
Cross-Reactivity (Details):	No significant cross-reactivity or interference between this index and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between this index and all the analogues, therefore, cross reaction may still exist.
Sensitivity:	0.055 ng/mL

Product Details

Components:

- · Pre-coated, ready to use 96-well strip plate
- · Standard (freeze dried)
- · Standard Diluent
- · Detection Reagent A
- · Detection Reagent B
- · Assay Diluent A
- · Assay Diluent B
- TMB
- · Stop Solution
- Wash Buffer (30X)
- Plate sealer for 96 wells
- · Instruction manual

Material not included:

- 1. Microplate reader with 450 \pm 10nm filter.
- 2. Precision single or multi-channel pipettes and disposable tips.
- 3. Eppendorf Tubes for diluting samples.
- 4. Deionized or distilled water.
- 5. Absorbent paper for blotting the microtiter plate.
- 6. Container for Wash Solution.

Target Details

Target:	VDAC1
Alternative Name:	Voltage Dependent Anion Channel Protein 1 (VDAC1) (VDAC1 Products)
Background:	Alternative name: PORIN-31-HL, Porin 31HM, Plasmalemmal porin, Outer mitochondrial membrane protein porin 1, Voltage-dependent anion-selective channel protein 1

Application Details

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Sample Volume:	100 μL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards
	2. Add 100µL standard or sample to each well. Incubate 2 hours at 37°C
	3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37°C
	4. Aspirate and wash 3 times
	5. Add 100µL prepared Detection Reagent B. Incubate 1 hour at 37°C
	6. Aspirate and wash 5 times

Application Details

	7. Add 90µL Substrate Solution. Incubate 15-25 minutes at 37°C	
	8. Add 50µL Stop Solution. Read at 450nm immediately.	
Assay Procedure:	The microtiter plate provided in this kit has been pre-coated with an antibody specific to the	
	index. Standards or samples are then added to the appropriate microtiter plate wells with a	
	biotin-conjugated antibody preparation specific to the index. 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 the index, 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 \pm 10nm. The concentration of the index in	
	the samples is then determined by comparing the O.D. of the samples to the standard curve.	
Assay Precision:	• Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level	
	the index were tested 20 times on one plate, respectively.	
	 Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level the index were tested on 3 different plates, 8 replicates in each plate. 	
	• CV(%) = SD/meanX100	
	Intra-assay: CV<10%	
	Inter-assay: CV<12%	
Restrictions:	For Research Use only	
Handling		
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and	
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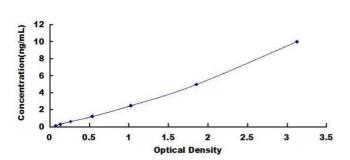
Handling

provided to minimize exposure to damp air. The test kit may be used throughout the expiration date of the kit (six months from the date of manufacture). Opened test kits will remain stable until the expiring date shown, provided it is stored as prescribed above.

Expiry Date:

12 months

Images



ELISA

Image 1. Typical Standard Curve