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Datasheet for ABIN6959756 SOD3 ELISA Kit

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Overview

Quantity:	96 tests
Target:	SOD3
Reactivity:	Rabbit
Method Type:	Sandwich ELISA
Detection Range:	0.78 ng/mL - 50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SOD3 in rabbit serum, plasma.
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Superoxide Dismutase 3, Extracellular (SOD3)
Sensitivity:	0.32 ng/mL
Components:	 Pre-coated, ready to use 96-well strip plate, flat buttom Plate sealer for 96 wells Reference Standard Standard Diluent

- Detection Reagent A
- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

Target Details

SOD3		
SOD3 Products		
Information on star		
The standard migh	tein or natural protein, that will depend on the spec	
kit. Moreover, the e	E.coli or yeast or mammal cell. There is 0.05% proc	
300 in the standard		
Information on rea		
The stop solution u	ic acid with concentration of 1 mol/L. And the was	
solution is TBS. Th	ntains 0.02 % sodium azide, assay diluent A and as	
diluent B contain 0.	ome kits can contain is BSA in them.	
Information on anti		
The provided antibo	ary in different kits.	
100 µL	100 µL	
3 h	3 h	
Pre-coated		
1. Prepare all reage	ndards,	
•	h well. Incubate 1 hours at 37 °C,	
·	ection Reagent A. Incubate 1 hour at 37 °C,	
·		
4. Aspirate and was	nt B. Incubate 30 minutes at 37 °C,	

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	6. Aspirate and wash 5 times, 7. Add 90μL Substrate Solution. Incubate 10-20 minutes at 37 °C, 8. Add 50μL Stop Solution. Read at 450nm immediately.
Reagent Preparation:	 Bring all kit components and samples to room temperature (18-25 °C) before use. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes at room temperature, shake gently (not to foam). The concentration of the standard in the stock solution is 50 ng/mL. Prepare 7 tubes containing 0.5 mL Standard Diluent and produce a double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of diluted standard such as 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 0.78 ng/mL, and the last microcentrifuge tube with Standard Diluent is the blank as 0 ng/mL. Detection Reagent A and Detection Reagent B - Briefly spin or centrifuge the stock Detection A and Detection B before use. Dilute to the working concentration with Assay Diluent A and B, respectively (1:100). Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized

5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not dump the residual solution into the vial again.

Note:

1. Making serial dilution in the wells directly is not permitted.

or distilled water to prepare 600 mL of Wash Solution (1x).

- 2. Prepare standard within 15 minutes before assay. Please do not dissolve the reagents at 37 °C directly.
- 3. Please carefully reconstitute Standards or working Detection Reagent A and B according to the instruction, and avoid foaming and mix gently until the crystals are completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10µL for once pipetting.
- 4. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only once.
- 5. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature and mix gently until the crystals are completely dissolved.
- 6. Contaminated water or container for reagent preparation will influence the detection result.

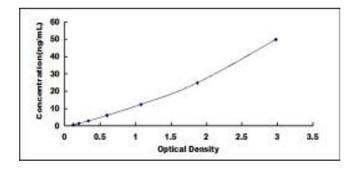
Sample Preparation:

- It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates.
 - If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit.
 - If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a possibility of causing a deviation due to the introduced chemical substance. The recommended dilution factor is for reference only.

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Application Details		
	• Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular experiment has to be determined. Samples should then be diluted with PBS (pH =7.0-7.2).	
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of	
	target were tested 20 times on one plate, respectively.	
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of	
	target 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	
	clothing protection when using this material.	
Storage:	4 °C/-20 °C	
Storage Comment:	 For unopened kit: All reagents should be stored according to the labels on the vials. The Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored at -20 °C upon receipt, while the other reagents should be stored at 4 °C. For opened kits: the remaining reagents must be stored according to the above storage conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper. 	
Expiry Date:	6 months	
Publications		
Product cited in:	Ombati, Wang, Du, Lu, Li, Nyachieo, Li, Yang, Lai: "A membrane disrupting toxin from wasp	
	venom underlies the molecular mechanism of tissue damage." in: Toxicon : official journal of	
	the International Society on Toxinology, Vol. 148, pp. 56-63, (2019) (PubMed).	

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ELISA

Image 1. Typical standard curve

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