

Datasheet for ABIN5608572 ARNTL ELISA Kit



Overview

Quantity:	96 tests
Target:	ARNTL
Reactivity:	Human
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 ARNTL in human tissue homogenates, cell lysates and other biological fluids.
Sample Type:	Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of this index.
Sensitivity:	0.057 ng/mL
Components:	 Pre-coated, ready to use 96-well strip plate Standard (freeze dried) Standard Diluent Detection Reagent A Detection Reagent B

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	 Assay Diluent A Assay Diluent B TMB Stop Solution Wash Buffer (30X) Plate sealer for 96 wells Instruction manual
Material not included:	 Microplate reader with 450 ± 10nm filter. Precision single or multi-channel pipettes and disposable tips. Eppendorf Tubes for diluting samples. Deionized or distilled water. Absorbent paper for blotting the microtiter plate.

6. Container for Wash Solution.

Target Details

Target:	ARNTL
Alternative Name:	Aryl Hydrocarbon Receptor Nuclear Translocator Like Protein (ARNTL) (ARNTL Products)
Background:	Alternative name: BMAL1, BMAL1c, JAP3, MOP3, PASD3, TIC, BHLHE5, Basic-helix-loop-helix- PAS protein MOP3, Brain and muscle ARNT-like 1, Class E basic helix-loop-helix protein 5
Gene ID:	406
UniProt:	000327
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Protein targeting to Nucleus, Warburg Effect

Application Details

Sample Volume:	100 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards
	2. Add 100 μ L standard or sample to each well. Incubate 2 hours at 37°C
	3. Aspirate and add 100 μ L 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

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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 clothing protection when using this material.
Handling Advice:	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 conditions. Note: To minimize
	unnecessary influences on the performance, operation procedures and lab conditions,
	unnecessary influences on the performance, operation procedures and lab conditions, especially room temperature, air humidity and incubator temperatures should be strictly
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Storage:	especially room temperature, air humidity and incubator temperatures should be strictly regulated. It is also strongly suggested that the whole assay is performed by the same
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-	 especially room temperature, air humidity and incubator temperatures should be strictly regulated. It is also strongly suggested that the whole assay is performed by the same experimenter from the beginning to the end. 4 °C,-20 °C The Assay Plate, Standard, Detection Reagent A and Detection Reagent B should be stored at -

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Expiry Date:

12 months

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