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## Datasheet for ABIN6958210 NLRP3 ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	NLRP3
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.31 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.31 ng/mL
Application:	ELISA

## Product Details

Purpose:The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of NLRP3 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates.Sample Type:Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue HomogenateAnalytical Method:QuantitativeDetection Method:ColorimetricSpecificity:This assay has high sensitivity and excellent specificity for detection of NLR Family, Pyrin Domain Containing Protein 3 (NLRP3)Sensitivity:0.125 ng/mLComponents:• Pre-coated, ready to use 96-well strip plate, flat buttom • Plate sealer for 96 wells • Reference Standard		
Analytical Method:QuantitativeDetection Method:ColorimetricSpecificity:This assay has high sensitivity and excellent specificity for detection of NLR Family, Pyrin Domain Containing Protein 3 (NLRP3)Sensitivity:0.125 ng/mLComponents:• Pre-coated, ready to use 96-well strip plate, flat buttom • Plate sealer for 96 wells	Purpose:	
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Domain Containing Protein 3 (NLRP3)         Sensitivity:       0.125 ng/mL         Components:       • Pre-coated, ready to use 96-well strip plate, flat buttom         • Plate sealer for 96 wells	Detection Method:	Colorimetric
Components: • Pre-coated, ready to use 96-well strip plate, flat buttom • Plate sealer for 96 wells	Specificity:	
Plate sealer for 96 wells	Sensitivity:	0.125 ng/mL
	Components:	<ul><li>Plate sealer for 96 wells</li><li>Reference Standard</li></ul>

• Standard Diluent

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- 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

Target:	NLRP3
Alternative Name:	NLR Family, Pyrin Domain Containing Protein 3 (NLRP3) (NLRP3 Products)
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Endopeptidase Activity, Inflammasome

#### Application Details

Comment:	Information on standard material:
	The standard might be recombinant protein or natural protein, that will depend on the specific
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin
	300 in the standard as preservative.
	Information on reagents:
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash
	solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies:
	The provided antibodies and their host vary in different kits.
Sample Volume:	100 µL
Assay Time:	3 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards,
	2. Add 100 $\mu L$ standard or sample to each well. Incubate 1 hours at 37 °C,

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	6. Contaminated water or container for reagent preparation will influence the detection result.
	and mix gently until the crystals are completely dissolved.
	once. 5. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature
	4. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only
	are calibrated. It is recommended to suck more than $10\mu L$ for one pipetting.
	To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved.
	3. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	37 °C directly.
	<ol> <li>Making serial dilution in the wells directly is not permitted.</li> <li>Prepare standards within 15 minutes before assay. Please do not dissolve the reagents at</li> </ol>
	Note:
	dump the residual solution into the vial again.
	5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not
	<ol> <li>Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized or distilled water to prepare 600 mL of Wash Solution (1x).</li> </ol>
	respectively.
	use. Dilute them to the working concentration 100-fold with Assay Diluent A and B,
	gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before
	Reagent A with 150µL of Reagent Diluent, keep for 10 minutes at room temperature, shake
	3. Detection Reagent A and Detection Reagent B - If lyophilized reconstitute the Detection
	last microcentrifuge tube with Standard Diluent is the blank as 0 ng/mL.
	tube thoroughly before the next transfer. Set up 7 points of diluted standard such as 20 ng/mL, 10 ng/mL, 5 ng/mL, 2.5 ng/mL, 1.25 ng/mL, 0.625 ng/mL, 0.312 ng/mL, and the
	Standard Diluent and use the diluted standard to produce a double dilution series. Mix each
	serves as the highest standard (20 ng/mL). Then prepare 7 tubes containing 0.5 mL
	solution is 40 ng/mL. Firstly dilute the stock solution to 20 ng/mL and the diluted standard
	room temperature, shake gently (not to foam). The concentration of the standard in the stock
	2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes at
	experiment, and leave the remaining strips and reagents in required condition.
	will not be used up in one time, please only take out strips and reagents for present
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit
	0. Add Jope Stop Solution. Nead at 430nm inmediately.
	7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C, 8. Add 50µL Stop Solution. Read at 450nm immediately.
	6. Aspirate and wash 5 times,
	5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
	4. Aspirate and wash 3 times,
	3. Aspirate and add 100 $\mu$ L prepared Detection Reagent A. Incubate 1 hour at 37 °C,

Sample Preparation:• It is recommended to use fresh samples without long storage, otherwise protein degradation<br/>and denaturationmay occur in these samples, leading to false results. Samples should

Storage: Storage Comment:	4 °C/-20 °C 1. For unopened kit: All reagents should be stored according to the labels on the vials. The
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	
Restrictions:	For Research Use only
	Inter-Assay: CV < 12%
	Intra-Assay: CV < 10%
	CV(%) = SD/meanX100
	target were tested on 3 different plates, 8 replicates in each plate.
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level o
-	target were tested 20 times on one plate, respectively.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	experiment has to be determined.Samples should then be diluted with PBS (pH =7.0-7.2).
	• 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
	recommended dilution factor is for reference only.
	possibilityof causing a deviation due to the introduced chemical substance. The
	If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a
	determinecompatibility with the kit.
	<ul><li>samples should be slowly thawed and centrifuged toremove precipitates.</li><li>If the sample type is not specified in the instructions, a preliminary test is necessary to</li></ul>
	3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen
	therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤

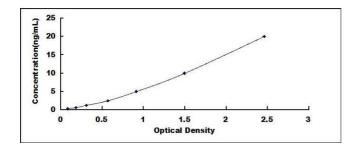
Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored at -20 °C upon receipt, while the other reagents should be stored at 4 °C. 2. For opened kits: the remaining reagents must be stored according to the above storage

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

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#### ELISA

Image 1. Typical standard curve

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