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Datasheet for ABIN6956877 ICAM1 ELISA Kit

1 Image

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Overview

Quantity:	96 tests
Target:	ICAM1
Reactivity:	Rabbit
Method Type:	Sandwich ELISA
Detection Range:	6.25 pg/mL - 400 pg/mL
Minimum Detection Limit:	6.25 pg/mL
Application:	ELISA

Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ICAM1 in rabbit serum, plasma, tissue homogenates, cell lysates, cell culture supernates.
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 Intercellular Adhesion Molecule 1 (ICAM1)
Sensitivity:	2.99 pg/mL
Components:	 Pre-coated, ready to use 96-well strip plate, flat buttom Plate sealer for 96 wells Reference Standard

• 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:	ICAM1
Abstract:	ICAM1 Products
Target Type:	Viral Protein
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Actin Filament Polymerization, Carbohydrate Homeostasis, Regulation of Leukocyte Mediated Immunity, Thromboxane A2 Receptor Signaling

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

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Application Details

	and mix gently until the crystals are completely dissolved. 6. Contaminated water or container for reagent preparation will influence the detection result.
	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
	To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10µL for one pipetting.
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved.
	37 °C directly. 3. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	 Making serial dilution in the wells directly is not permitted. Prepare standards within 15 minutes before assay. Please do not dissolve the reagents at
	Note:
	dump the residual solution into the vial again.
	or distilled water to prepare 600 mL of Wash Solution (1x). 5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not
	4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
	use. Dilute them to the working concentration 100-fold with Assay Diluent A and B, respectively.
	gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before
	3. Detection Reagent A and Detection Reagent B - If lyophilized reconstitute the Detection Reagent A with 150µL of Reagent Diluent, keep for 10 minutes at room temperature, shake
	6.25pg/mL, and the last microcentrifuge tube with Standard Diluent is the blank as 0pg/mL.
	double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of diluted standard such as 400pg/mL, 200pg/mL, 100pg/mL, 50pg/mL, 25pg/mL, 12.5pg/mL,
	solution is 400pg/mL. Prepare 7 tubes containing 0.5 mL Standard Diluent and produce a
	 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
	experiment, and leave the remaining strips and reagents in required condition.
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit will not be used up in one time, please only take out strips and reagents for present
	0. Add Jope Stop Solution. Read at 430mm 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,
	4. Aspirate and wash 3 times, 5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
	3. Aspirate and add 100 μ L prepared Detection Reagent A. Incubate 1 hour at 37 °C,
Protocol:	 Prepare all reagents, samples and standards, Add 100μL standard or sample to each well. Incubate 1 hours at 37 °C,

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Expiry Date:

Publications

Product cited in:

6 months

 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. 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).
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%
For Research Use only
The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and
clothing protection when using this material.
4 °C/-20 °C
 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.

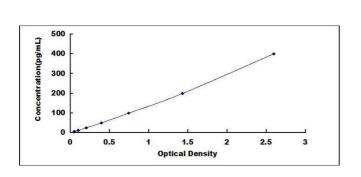
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Images



ELISA

Image 1. Typical standard curve

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