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Datasheet for ABIN6957572 LTA ELISA Kit

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Overview

Quantity:	96 tests
Target:	LTA
Reactivity:	Pig
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TNFb in
	porcine 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

This assay has high sensitivity and excellent specificity for detection of Tumor Necrosis Factor
Beta (TNFb)

Components:

Specificity:

Sensitivity:

• Pre-coated, ready to use 96-well strip plate, flat buttom

• Plate sealer for 96 wells

- Reference Standard
- Standard Diluent

6.1 pg/mL

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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:	LTA
Alternative Name:	Tumor Necrosis Factor Beta (TNFb) (LTA Products)
Target Type:	Chemical
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

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,

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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
	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 onl
	are calibrated. It is recommended to suck more than 10μ 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
	2. Prepare standards within 15 minutes before assay. Please do not dissolve the reagents at 37 °C directly.
	 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.
	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 or distilled water to prepare 600 mL of Wash Solution (1x).
	gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before use. Dilute them to the working concentration 100-fold with Assay Diluent A and B, respectively.
	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
	31.2pg/mL, 15.6pg/mL, and the last microcentrifuge tube with Standard Diluent is the blank as 0pg/mL.
	diluted standard such as 1,000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL,
	double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of
	room temperature, shake gently (not to foam). The concentration of the standard in the stoc solution is 1,000pg/mL. Prepare 7 tubes containing 0.25 mL Standard Diluent and produce a
	2. Standard - Reconstitute the Standard with 0.5 mL of Standard Diluent, keep for 10 minutes a
	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
	8. Add 50µL Stop Solution. Read at 450nm immediately.
	7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
	6. Aspirate and wash 5 times,
	5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
	 Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37 °C, Aspirate and wash 3 times,

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.

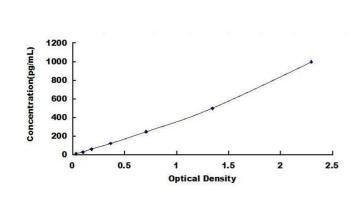
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Images



ELISA

Image 1. Typical standard curve