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Datasheet for ABIN6963591 TNF alpha ELISA Kit

1 Image

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Publications



Overview

Quantity:	96 tests
Target:	TNF alpha
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.25 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.25 pg/mL
Application:	ELISA
Product Details	

Purpose:	The kit is a sandwich enzyme immunoassay technique for the in vitro quantitative measurement in various sample types.
Sample Type:	Cell Culture Supernatant, Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit recognizes Mouse TNF- α in samples. No Significant cross-reactivity or interference between Mouse TNF- α and analogues was observed.
Sensitivity:	18.75 pg/mL
Components:	 Pre-coated, ready to use 96-well strip plate, flat buttom Plate sealer for 96 wells Reference Standard

• Reference Standard & Sample Diluent

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- Biotinylated Detection Antibody (100 x concentrate)
- HRP Conjugate (100 x concentrate)
- Biotinylated Detection Antibody Diluent
- HRP Conjugate Diluent
- Substrate Reagent
- Stop Solution
- Wash Buffer (25 x concentrate)
- Instruction manual

Target Details

Target:	TNF alpha
Alternative Name:	Tumor Necrosis Factor Alpha (TNF alpha Products)
Background:	DIF, TNF-alpha, TNFA, TNFSF2,TNF,TNFa
Pathways:	NF-kappaB Signaling, Apoptosis, Caspase Cascade in Apoptosis, TLR Signaling, Cellular
	Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive
	Regulation of Immune Effector Process, Production of Molecular Mediator of Immune
	Response, Positive Regulation of Endopeptidase Activity, Hepatitis C, Protein targeting to
	Nucleus, Inflammasome

Application Details

Sample Volume:	100 µL
Assay Time:	3.5 h
Plate:	Pre-coated
Protocol:	1. Add 100 μL standard or sample to each well. Incubate for 90 min at 37 °C.
	2. Remove the liquid. Add 100 μL Biotinylated Detection Antibody. Incubate for 1 hour at 37 °C.
	3. Aspirate and wash 3 times.
	4. Add 100 μL HRP Conjugate. Incubate for 30 min at 37 °C.
	5. Aspirate and wash 5 times.
	6. Add 90 µL Substrate Reagent. Incubate for 15 min at 37 °C.
	7. Add 50 µL Stop Solution. Read at 450 nm immediately.
	8. Calculation of results.
Reagent Preparation:	1. Bring all reagents to room temperature (18~25 °C) before use. Follow the Microplate reader
	manual for set-up and preheat it for 15 min before OD measurement.
	2. Wash Buffer: Dilute 30 mL of Concentrated Wash Buffer with 720 mL of deionized or distilled
	water to prepare 750 mL of Wash Buffer.Note: if crystals have formed in the concentrate,

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	main terms to be made bate and make gently until the oryotalo have completely allocated
	3. Standard working solution: Centrifuge the standard at 10,000xg for 1 min. Add 1.0 mL of
	Reference Standard & Sample Diluent, let it stand for 10 min and invert it gently several times.
	After it dissolves fully, mix it thoroughly with a pipette. This reconstitution produces a
	working solution of 2000 pg/mL. Then make serial dilutions as needed. The recommended
	dilution gradient is as follows: 2000, 1000, 500, 250, 125, 62.5, 31.25, 0 pg/mL. Dilution
	method: Take 7 EP tubes, add 500 µLof Reference Standard & Sample Diluent to each tube.
	Pipette 500 μ Lof the 2000 pg/mL working solution to the first tube and mix up to produce a
	1000 pg/mL working solution. Pipette 500 µLof the solution from the former tube into the
	latter one according to these steps. The illustration below is for reference. Note: the last tube
	is regarded as a blank. Don't pipette solution into it from the former tube.
	4. Biotinylated Detection Antibody working solution: Calculate the required amount before the
	4. Bioling and Detection Antibody working solution. Calculate the required arround before the experiment (100 μ L/well). In preparation, slightly more than calculated should be prepared. Centrifuge the stock tube before use, dilute the 100x Concentrated Biotinylated Detection
	Antibody to 1xworking solution with Biotinylated Detection Antibody Diluent.
	5. Concentrated HRP Conjugate working solution: Calculate the required amount before the
	experiment (100 μ L/well). In preparation, slightly more than calculated should be prepared.
	Dilute the 100x Concentrated HRP Conjugate to 1x working solution with Concentrated HRP
	Conjugate Diluent.
Sample Preparation:	• It is recommended to use fresh samples without long storage, otherwise protein degradation
	and denaturation may occur in these samples, leading to false results. Samples should
	therefore be stored for a short period at 2 - 8 °C or aliquoted at -20 °C (<1 month) or -80 °C (<
	3 months). Repeated freeze-thaw cycles should be avoided. Prior to assay, the frozen
	samples should be slowly thawed and centrifuged to remove precipitates.
	If the sample type is not specified in the instructions, a preliminary test is necessary to
	determine compatibility 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 the range of the standard curve, the optimal sample dilution for the particular
	experiment has to be determined.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level
	Mouse TNF- α were tested 20 times on one plate, respectively.
	Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level
	Mouse TNF- α were tested on 3 different plates, 20 replicates in each plate.
	Both intra-CV and inter-CV are < 10 %.
Restrictions:	For Research Use only

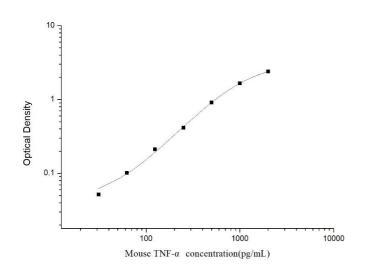
warm it in a 40 °C water bath and mix it gently until the crystals have completely dissolved

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Handling

Storage:	4 °C,-20 °C
Storage Comment:	 For unopened kit: All reagents should be stored according to the labels on the vials, so they are stable up to 12 months after receipt of the kit. The Reference Standard, Biotinylated Detection Antibody, HRP Conjugate and the 96-well stripe plate should be stored at -20 °C upon receipt while the other reagents should be stored at 4 °C. For used kit: When the kit is used, the remaining reagents need to be stored according to the above storage condition. Besides, please return the unused wells to the foil pouch containing the desiccant pack, and zip-seal the foil pouch.
Expiry Date:	12 months
Publications	
Product cited in:	Yuan, Zhong, Liu: "Structural characterisation and immunomodulatory activity of a neutral
	polysaccharide from Sambucus adnata Wall." in: International journal of biological
	macromolecules, Vol. 154, pp. 1400-1407, (2021) (PubMed).
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	exosomes ameliorate endothelial dysfunction in a mouse model of diabetes." in: Biomedicine 8
	pharmacotherapy , Vol. 131, pp. 110756, (2021) (PubMed).
	Han, Joo, Kim, Jeung, Kang, Kim: "Bifidobacteria-Fermented Red Ginseng and Its Constituents
	Ginsenoside Rd and Protopanaxatriol Alleviate Anxiety/Depression in Mice by the Amelioration
	of Gut Dysbiosis." in: Nutrients , Vol. 12, Issue 4, (2021) (PubMed).
	Liu, Xiang, Gao, Yao, Ye, Wang: "The Inhibition of P-Selectin Reduced Severe Acute Lung Injury in
	Immunocompromised Mice." in: Oxidative medicine and cellular longevity, Vol. 2020, pp.
	8430465, (2021) (PubMed).
	Su, Pan, Wang, Li, Huang, Ma: "Saikosaponin-d attenuated lipopolysaccharide-induced
	depressive-like behaviors via inhibiting microglia activation and neuroinflammation." in:
	International immunopharmacology, Vol. 80, pp. 106181, (2021) (PubMed).
	There are more publications referencing this product on: Product page





ELISA

Image 1. Typical standard curve

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