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TNF alpha ELISA Kit





Publications



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Quantity:	96 tests
Target:	TNF alpha
Reactivity:	Chicken
Method Type:	Competition ELISA
Detection Range:	0.27 pg/mL - 200 pg/mL
Minimum Detection Limit:	0.27 pg/mL
Application:	ELISA
Product Details	
Purpose:	For the quantitative determination of chicken tumor necrosis factor α (TNF- α) concentrations in serum, plasma, tissue homogenates.
Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of chicken TNF- α . No significant cross-reactivity or interference between chicken TNF- α and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between chicken TNF- α and all the analogues, therefore, cross reaction may still exist.
Components:	Assay plateStandard

- HRP-conjugate (100 x concentrate)
- · Sample Diluent
- · HRP-conjugate Diluent
- Wash Buffer (25 x concentrate)
- TMB Substrate
- · Stop Solution
- · Adhesive Strip
- Stop Solution
- · Adhesive Strip

Target Details

Target:	TNF alpha
Alternative Name:	Tumor necrosis factor alpha,TNF-alpha (TNF alpha Products)
Background:	Abbreviation: TNF-α
	Alias: DADB-70P7.1, DIF, TNF-alpha, TNFA, TNFSF2, APC1 protein TNF superfamily, member
	2 TNF, macrophage-derived TNF, monocyte-derived cachectin tumor necrosis factor alpha
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

Application Notes:	Optimal working dilution should be determined by the investigator.
Sample Volume:	50 μL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
2 3 4 5	1. Prepare reagents, samples and standards as instructed.
	2. Set a Blank well without any solution.
	3. Add 50 µL standard or sample to each well.
	4. Add 50 μL HRP-conjugate (1x) to each well (Not to Blank well).
	5. Incubate 1 hour at 37 °C
	6. Aspirate and wash 5 times.
	7. Add 90 µL of TMB Substrate to each well. Incubate for 20 minutes at 37 °C. Protect from

light.

8. Add 50 µL Stop Solution to each well. Read at 450 nm within 5 minutes.

Reagent Preparation:

- 1. HRP-conjugate (1x) Centrifuge the vial before opening. HRP-conjugate requires a 100-fold dilution. A suggested 100-fold dilution is 10 μ L of HRP-conjugate + 990 μ L of HRP-conjugate Diluent.
- 2. Wash Buffer(1x)- If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20 mL of Wash Buffer Concentrate (25 x) into deionized or distilled water to prepare 500 mL of Wash Buffer (1 x).
- 3. Standard Centrifuge the standard vial at 6000-10000rpm for 30s before opening. Reconstitute the Standard with 1.0 mL of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution of 200 pg/mL. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions. Pipette 200 µL of Sample Diluent into each tube (S0-S6). Use the stock solution to produce a 3-fold dilution series (below). Mix each tube thoroughly before the next transfer. The undiluted Standard serves as the high standard (200 pg/mL). Sample Diluent serves as the zero standard (0 pg/mL).

Note:

- Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit.
- Bring all reagents to room temperature (18-25 °C) before use for 30 min.
- Prepare fresh standard for each assay. Use within 4 hours and discard after use.
- · Making serial dilution in the wells directly is not permitted.
- Distilled water is recommended to be used to make the preparation for reagents.
 Contaminated water or container for reagent preparation will influence the detection result.

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 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 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 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).

Assay Precision:

Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess.

Application Details

Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.

Restrictions:

For Research Use only

Handling

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Storage:	4 °C20 °C

Storage Comment:

Unopened kit Store at 2 - 8°C. Do not use the kit beyond the expiration date. May be stored for up to 1 month at 2 - 8°C. Coated assay Try to keep it in a sealed aluminum foil bag, plate and avoid the damp. Standard May be stored for up to 1 month at 2 - 8°C. If don't make recent use, better keep it store at HRP-conjugate -20°C. Opened kit HRP-conjugate Diluent Sample Diluent May be stored for up to 1 month at 2 - 8°C. Wash Buffer TMB Substrate Stop Solution *Provided this is within the expiration date of the kit.

Expiry Date:

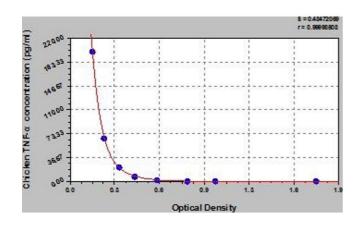
6 months

Publications

Product cited in:

Jin, Cheng, Pei, Fu, Lyu, Peng, Yao, Jiang, Luo, Zhuo: "Identification and verification of transgelin-2 as a potential biomarker of tumor-derived lung-cancer endothelial cells by comparative proteomics." in: **Journal of proteomics**, Vol. 136, pp. 77-88, (2016) (PubMed).

Images



ELISA

Image 1. Typical Standard Curve