



Human Tumor necrosis factor-inducible gene 6 protein(TNFAIP6) ELISA kit

Product Code	CSB-EL023959HU
Abbreviation	TNFAIP6
Protein Biological Process 1	Cell Adhesion
Uniprot No.	P98066
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	47 ng/ml - 3000 ng/ml
Sensitivity	11.75 ng/ml
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator can provide stable incubation conditions up to 37°C±5°C. Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer Test tubes for dilution
Gene Names	TNFAIP6
Tag Info	quantitative
Protein Description	Sandwich
Component	A micro ELISA plate --- The 96-well plate has been pre-coated with an anti-human TNFAIP6 antibody. This dismountable microplate can be divided into 12 x 8 strip plates.



Two vials lyophilized standard ---Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.

One vial Biotin-labeled TNFAIP6 antibody (100 x concentrate) (120 µl/bottle) --- Act as the detection antibody.

One vial HRP-avidin (100 x concentrate) (120 µl/bottle) ---Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic.

One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the Biotin-antibody.

One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the HRP-avidin solution.

One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration.

One vial Wash Buffer (25 x concentrate) (20 ml/bottle) ---Wash away unbound or free substances.

One vial TMB Substrate (10 ml/bottle) ---Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.

One vial Stop Solution (10 ml/bottle) ---Stop the color reaction. The solution color immediately turns from blue to yellow.

Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation. An instruction manual

Description

The product CSB-EL023959HU is a ready-to-use microwell, strip plate ELISA Kit for quantitative detection of tumor necrosis factor-inducible gene 6 protein (TNFAIP6) levels in human serum, plasma, or tissue homogenates. This kit The kit has undergone multiple validations, including sensitivity, specificity, precision, linearity, recovery, and lot-to-lot consistency. Refer to the product instructions for more details.

The detection mechanism of this assay is based on the sandwich ELISA technique. TNFAIP6 in the samples or standards is sandwiched between pre-coated TNFAIP6 antibody and Biotin-conjugated TNFAIP6 antibody, forming an Ab-Ag-Ab complex. The pre-coated TNFAIP6 antibody/TNFAIP6/Biotin-conjugated TNFAIP6 antibody complex is labeled with HRP and then triggered a chromogenic reaction after the addition of the TMB substrate solution. The color develops in proportion to the amount of TNFAIP6 in the samples. The color development is terminated upon adding the stop solution, and the color immediately turned from blue to yellow. The color intensity can be calculated by a microplate reader at 450 nm.

TNFAIP6, also named TSG-6, is an inflammatory protein belonging to the hyaluronic acid-binding protein family. It is rapidly activated by stimuli, such as TNF-alpha, IL-1, and lipopolysaccharide in several cells, including fibroblasts, peripheral blood mononuclear cells, chondrocytes, and synovial cells. TNFAIP6 is linked to accelerated wound healing and reduced tissue fibrosis. It also modulates chemokines by suppressing the interactions between chemokines and mucopolysaccharides. Studies have shown that TNFAIP6 possesses both pro-inflammatory and anti-inflammatory activity. Moreover, TNFAIP6 can dampen chemokine-stimulated transmigration of neutrophils by directly interacting with the CXCL8 binding site.

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