Datasheet for ABIN1112574

TNFSF8 ELISA Kit

Go to Product page

Overview

Quantity:	96 tests
Target:	TNFSF8
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	For quantitative detection of CD30L in mouse serum, body fluids, tissue lysates or cell culture supernatants.
Sample Type:	Cell Culture Supernatant, Plasma, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 6 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Mouse CD30L antibody 2. Lyophilized Mouse CD30L standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Mouse CD30L antibody (Concentrated): 130 µl.
Material not included:	1. 37 °C incubator 2. Microplate reader (wavelength: 450nm) 3. Precise pipette and disposable pipette tips 4. Automated plate washer 5. ELISA shaker 6. 1.5ml of Eppendorf tubes 7. Plate cover 8. Absorbent filter papers 9. Plastic or glass container with volume of above 1L

Target Details

Target:	TNFSF8
Alternative Name:	CD30L (TNFSF8 Products)
Background:	CD30 ligand (CD30L), also known as CD153, is a cytokine that induces proliferation of T cells. The CD30L gene contains 4 exons and spans more than 17.1 kb. It has the characteristics of a type II membrane protein, with no apparent signal peptide and a transmembrane domain followed by a C-terminal extracellular domain. CD30L is expressed on the surface of B cells and found that this expression is upregulated upon CD154 (CD40L), IL4, and B-cell receptor engagement. Smith et al. (1993) found that recombinant mouse CD30L enhanced the proliferation of CD3-activated T cells, but induced differential responses, including cell death, in several CD30-positive lymphoma-derived cell lines.

Application Details

Comment:	This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CD30L polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-CD30L polyclonal antibody was used as detection antibodies. The standards test samples and biotin conjugated detection antibody were added - the wells subsequently and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used - visualize HRP enzymatic reaction. TMB was catalyzed by HRP - produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional - the CD30L amount of sample captured in plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of CD30L can be calculated.
Plate:	Pre-coated
Reagent Preparation:	1. Before the experiment, centrifuge each kit component for several minutes to bring down all reagents to the bottom of tubes. 2. It is recommend to measure each standard and sample in duplicate. 3. Do NOT let the plate completely dry at any time! Since the dry condition can inactivate the biological material on the plate. 4. Do not reuse pipette tips and tubes to avoid cross contamination. 5. Do not use the expired components and the components from different batches. 6. To avoid the marginal effect of plate incubation for temperature differences (the marginal wells always get stronger reaction), it is recommend to equilibrate the ABC working solution and TMB substrate for at least 30 min at room temperature (37°C) before adding to wells.The TMB substrate (Kit Component 8) is colorless and transparent before use, if not, please contact us for replacement.

Application Details

Sample Preparation:	Preparation of sample and reagents 1. Sample Isolate the test samples soon after collecting, then, analyze immediately (within 2 hours). Or aliquot and store at -20 °C for long term. Avoid multiple freeze-thaw cycles. Cell culture supernatants: Centrifuge to remove precipitate, analyze immediately or aliquot and store at -20 °C . Tissue lysate, body fluids: Centrifuge at approximately 2000 × g for 20 min to remove precipitate. Serum: Coagulate the serum at room temperature (about 4 hours). Centrifuge at approximately 1000 × g for 10 min. Analyze the serum immediately or aliquot and store at -20 °C . Note: 1. Coagulate blood samples completely, then, centrifuge, and avoid hemolysis and particle. 2. NaN3 can not be used as test sample preservative, since it is the inhibitor for HRP.
Restrictions:	For Research Use only

Handling

Preservative:	Sodium azide, Thimerosal (Merthiolate)