Datasheet for ABIN1112750

CCL3 ELISA Kit

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Overview

Quantity:	96 tests
Target:	CCL3
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 10 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Human MIP-1alpha antibody 2. Lyophilized Human MIP-1alpha standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Human MIP-1alpha 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:	CCL3

Target Details

Alternative Name:	MIP-1alpha / CCL3 (CCL3 Products)
Background:	Macrophage inflammatory protein-1(MIP-1a), also known as Chemokine (C-C motif) ligand 3(CCL3) or LD78, is a cytokine belonging to the CC chemokine family. The LD78 gene chromosome 17q21.1-q21.3. It is involved in the acute inflammatory state in the recruitment and activation of polymorphonuclear leukocytes. Sherry et al. (1988) demonstrated 2 protein components of MIP1, called by them alpha and beta. MIP-1a is an important mediator of virus-induced inflammation in vivo, and also an important second signal for mast cell degranulation in the conjunctiva and for acute-phase disease, possibly through interaction with CCR1, its chemokine receptor.
Pathways:	Cellular Response to Molecule of Bacterial Origin, Autophagy

Application Details

Comment:	This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti- MIP-1alpha polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-MIP-1alpha 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 MIP-1alpha amount of sample captured in plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of MIP-1alpha 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. Tissue lysate, body fluids and cell culture supernatants: Centrifuge to remove precipitate, analyze immediately or aliquot and store at -20 °C . Serum: Coagulate the serum at room temperature (about 4 hours). Centrifuge at approximately 1000 × g for 15 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)