Datasheet for ABIN1112782

TNFRSF11A ELISA Kit

Go to Product page

Overview

Quantity:	96 tests
Target:	TNFRSF11A
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 2 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Human RANK antibody 2. Lyophilized Human RANK standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Human RANK 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:	TNFRSF11A

Target Details

Alternative Name:	RANK / TNSFRSF11A (TNFRSF11A Products)
Background:	Receptor Activator of Nuclear Factor ţ B (RANK), also known as TRANCE Receptor, is a type I membrane protein. It is expressed on the surface of osteoclasts, dendritic cells and facilitates immune signaling. RANK is involved in their activation upon ligand binding. RANKL (Receptor Activator for Nuclear Factor ţ B Ligand) is found on the surface of stromal cells, osteoblasts, and T cells. RANKL and RANK have an essential role in the brain. RANK and RANKL appear to be important regulators of interactions between T cells and dendritic cells.
Pathways:	NF-kappaB Signaling

Application Details

Comment:	This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-RANK polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-RANK 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 RANK amount of sample captured in plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of RANK 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.
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

Application Details

	multiple freeze-thaw cycles. Tissue lysates 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 10 min. Analyze the serum immediately or aliquot and store at -20 °C . Plasma: Collect plasma with EDTA as the anticoagulant. Centrifuge for 10 min at 1000 x g within 30 min of collection. Analyze immediately or aliquot and store frozen at -20 °C.Heparin and citrate can not be used as anticoagulant here. 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)

