

Datasheet for ABIN1112557 CD80 ELISA Kit



Overview

Quantity:	96 tests
Target:	CD80
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	For quantitative detection of B7-1 in tissue lysates or cell culture supernates.
Sample Type:	Tissue Lysate, Cell Culture Supernatant
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 10 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Mouse B7-1 antibody 2. Lyophilized Mouse B7-1 standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Mouse B7-1 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

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Target Details

Target:	CD80
Alternative Name:	CD80 / B7-1 (CD80 Products)
Background:	Cluster of Differentiation 80 (also CD80 and B7-1) is a protein found on activated B cells and monocytes. B7-1 provides regulatory signals for T lymphocytes as a consequence of binding to the CD28 and CTLA4 ligands of T cells. The CD80 gene has 6 exons that span approximately 32 kb of genomic DNA. The antigen presentation coactivators B7-1 and B7-2 may be important for lymphocytic infiltration and the immune response against thyroid carcinoma.
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Positive Regulation of Immune Effector Process, Cancer Immune Checkpoints

Application Details

Comment:	This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-B7-1
	polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-B7-1
	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 B7-1 amount of sample captured in
	plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of
	B7-1 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 $^\circ$ C) before adding to
	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,

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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 $^\circ C$ for long term. Avoid
	multiple freeze-thaw cycles.
	Tissue lysate or body fluids, cell culture supernate: 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
	2000 × g for 15 min. Analyze the serum immediately or aliquot and store at -20 $^\circ\mathrm{C}$.
	Plasma: Collect plasma with heparin, citrate or EDTA as the anticoagulant. Centrifuge for 20
	min at 2000 x g within 30 min of collection. Analyze immediately or aliquot and store frozen 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)