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Datasheet for ABIN1889314 CD80 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	CD80
Binding Specificity:	AA 39-248
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat CD80/B7-1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: I39-Q248
Specificity:	Expression system for standard: NSO Immunogen sequence: I39-Q248
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<2pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

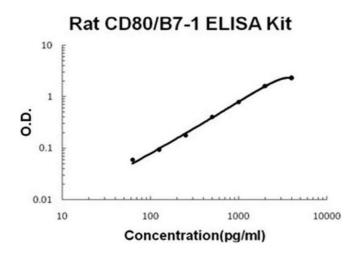
Target Details

Target:	CD80
Alternative Name:	CD80 (CD80 Products)
Background:	Background: The protein CD80(Cluster of Differentiation 80) is a molecule found on activated B cells and monocytes which provides a costimulatory signal necessary for T cell activation and survival. It is also known as B7-1. The cDNA for B7-1 predicts a type I membrane protein, i.e., one synthesized with a signal peptide that is cleaved upon translocation across the endoplasmic membrane. The protein is predicted to contain 2 extracellular domains structurally similar to those of Ig, a hydrophobic transmembrane region, and a short cytoplasmic domain. The CD80 and CD86 genes encode B7-1 and B7-2, respectively, which are structurally similar members of the immunoglobulin superfamily expressed on a variety of hematopoietic cell types. B7-1 and B7-2 provide a costimulatory signal to T cells by interacting with CD28 and CTLA4. Synonyms: B7.1, Cd80, B7.1, Full Gene Name: CD80 Molecule
Gene ID:	25408
UniProt:	035187
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	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	rat CD80 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay

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Application Details

	technology. A monoclonal antibody from mouse specific for CD80 has been precoated onto 96-
	well plates. Standards(NSO, I39-Q248) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for CD80 is added subsequently and then
	followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and
	unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used
	to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color
	product that changed into yellow after adding acidic stop solution. The density of yellow is
	proportional to the rat CD80 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL,
Assay Flocedule.	
	125pg/mL, 62.5pg/mL rat CD80 standard solutions into the precoated 96-well plate. Add
	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of rat cell culture supernates or serum to each empty well. See "Sample
	Dilution Guideline" above for details. It is recommended that each rat CD80 standard solution
	and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(ng/ml): 1.18, Standard deviation: 0.06, CV(%): 5.1
	 Sample 2: n=16, Mean(ng/ml): 2.34, Standard deviation: 0.159, CV(%): 6.8
	 Sample 3: n=16, Mean(ng/ml): 3.12, Standard deviation: 0.175, CV(%): 5.6,
	 Sample 1: n=24, Mean(ng/ml): 1.19, Standard deviation: 0.069, CV(%): 5.8
	Sample 2: n=24, Mean(ng/ml): 2.46, Standard deviation: 0.182, CV(%): 7.4
	 Sample 3: n=24, Mean(ng/ml): 3.35, Standard deviation: 0.224, CV(%): 6.7
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Rat CD80/B7-1 PicoKine ELISA Kit standard curve

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