

Rat CD80/B7-1 ELISA Kit | CD80 elisa kit

Rat CD80/B7-1 PicoKine ELISA Kit

CATALOG #
AAA45768

REACTIVITY
Rat

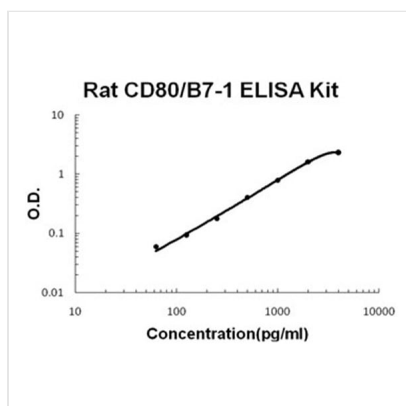
PRODUCT SYNONYMS

CD80/B7-1; Rat CD80/B7-1 PicoKine ELISA Kit; T-lymphocyte activation antigen CD80; CD80 molecule; Activation B7-1 antigen; B7; BB1; CD80; CD80_HUMAN; CTLA-4 counter-receptor B7.1; CD80 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat CD80
Sequence Length	321
Samples	Cell culture supernates and serum
Assay Type	Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	< 2pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Rat CD80/B7-1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CD80 elisa kit	Principle of the assay: rat CD80 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay 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. 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.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	81908343
NCBI GeneID	25408
UniProt Accession #	O35187
Molecular Weight	36,352 Da
NCBI Official Full Name	B7.1
NCBI Official Synonym Full Names	Cd80 molecule
NCBI Official Symbol	Cd80
NCBI Official Synonym Symbols	B7-1
NCBI Protein Information	T-lymphocyte activation antigen CD80; CD80 antigen; Cd80 a rat homolog of the human CD28/CTLA - 4 ligand (B7-1)
UniProt Protein Name	B7.1
UniProt Gene Name	Cd80
UniProt Entry Name	O35187_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.