

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

Mouse B7-1/CD80 PicoKine ELISA Kit

CATALOG #
AAA45230

REACTIVITY
Mouse

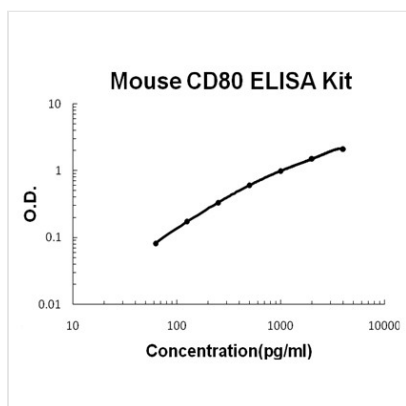
PRODUCT SYNONYMS

B7-1/CD80; Mouse B7-1/CD80 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	Mouse
Specificity	Natural and recombinant mouse CD80
Sequence Length	306
Samples	Cell culture supernates and serum
Assay Type	Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	< 10pg/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)

Mouse B7-1/CD80 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CD80 elisa kit	Principle of the assay: mouse CD80 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CD80 has been precoated onto 96-well plates. Standards(NSO, D37-K245) 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 mouse 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[1].The CD80 and CD86 (601020) 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.[2] stated that B7-1 and B7-2 provide a costimulatory signal to T cells by interacting with CD28 and CTLA4. The standard product used in this kit is recombinant B7-1,D37—K245,which is composed of two single chains acids with the dipolymer.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	461607
NCBI GeneID	12519
UniProt Accession #	Q00609; Q61332
Molecular Weight	24,051 Da
NCBI Official Full Name	T-lymphocyte activation antigen CD80
NCBI Official Synonym Full Names	CD80 antigen
NCBI Official Symbol	Cd80
NCBI Official Synonym Symbols	B71; Ly53; TSA1; Cd28l; Ly-53; MIC17
NCBI Protein Information	T-lymphocyte activation antigen CD80; B7 protein; activation B7-1 antigen
UniProt Protein Name	T-lymphocyte activation antigen CD80
UniProt Gene Name	Cd80
UniProt Synonym Gene Names	B7; B7
UniProt Entry Name	CD80_MOUSE

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.