

Mouse IL-10 ELISA Kit | IL-10 elisa kit

Mouse IL-10 ELISA KIT

CATALOG #
AAA309901

REACTIVITY
Mouse

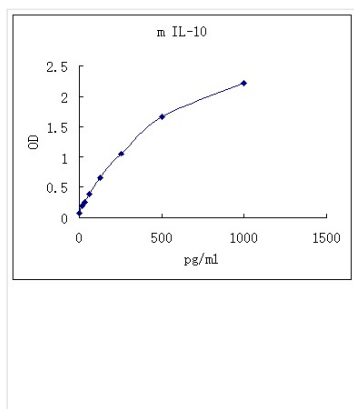
PRODUCT SYNONYMS

IL-10; Mouse IL-10 ELISA KIT; Mouse IL-10; IL-10 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse IL-10 Ligand
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	0.02-1.0 ng/mL
Sensitivity	7pg/mL
Assay Time	3 hour
Sample Volume	20 uL
Detection Method	Colorimetric
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

Representative standard curve for IL-10 ELISA. IL-10 was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

Related Product Information for IL-10 elisa kit	Interleukin 10 (IL-10), initially designated cytokine synthesis inhibitor, is a pleiotropic cytokine that inhibits the production of a number of cytokines (including IL-1, GM-CSF, TNF, IL-6, IL-8, IL-12 and IFN-g) by activated Th1 cells, NK cells, and monocytes/macrophages. Mouse IL-10 is produced by a wide variety of cells, including activated Th2 cells, fetal thymocytes, monocytes/macrophages, keratinocytes, B cells, and glial cells (1-3). Mouse IL-10 cDNA encodes a 178 amino acid residue precursor protein with a hydrophobic signal peptide that is cleaved to generate the 160 amino acid residue mature protein (4). At the amino acid sequence level, there is approximately 73% identity between mouse and rat or mouse and human IL-10. Although human IL-10 is active on mouse cells, mouse IL-10 does not show species cross-reactivity on human cells (1). Herpes viruses, including EBV and equine herpes virus type 2, have been shown to encode viral homologues of IL-10 that exhibit some of the activities of IL-10 on both mouse and human cells (5, 6).IL-10 has been shown to inhibit macrophage cytotoxic activity and to stimulate the proliferation and differentiation of B cells, mast cells, and thymic T cells. IL-10 is a potent modulator of monocyte/macrophage function. IL-10 also enhances the release of soluble TNF receptors and inhibits the expression of surface ICAM-1 and B7 (7, 8). Finally, IL-10 has been reported to suppress the synthesis of superoxide anion (9) plus reactive oxygen intermediates (ROI), and either inhibit or facilitate nitric oxide synthesis, depending on the time of exposure to activated macrophages (10). IL-10 has marked effects on B cells. IL-10 also has documented activity on endothelial cells, where it mimics IL-4 (11), and on thymocytes (12) and mast cells, where it acts as a growth costimulator (13, 14).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	385202765
NCBI GeneID	397106
Molecular Weight	19,934 Da
NCBI Official Full Name	IL-10, partial
NCBI Official Symbol	IL10
NCBI Official Synonym Symbols	CSIF; IL-10
NCBI Protein Information	interleukin-10
UniProt Protein Name	Interleukin-10
UniProt Gene Name	IL10
UniProt Synonym Gene Names	IL-10; CSIF

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.