

Mouse IL-12(p40) ELISA Kit | IL12B elisa kit

Mouse IL-12(p40) PicoKine ELISA Kit

CATALOG #
AAA45587

REACTIVITY
Mouse

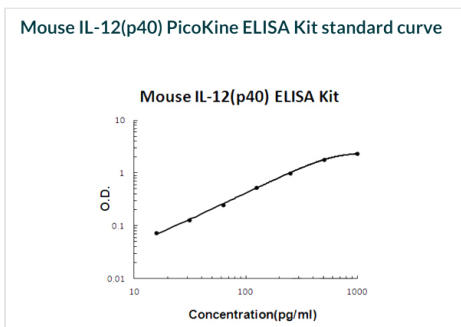
PRODUCT SYNONYMS

IL-12(p40); Mouse IL-12(p40) PicoKine ELISA Kit; Interleukin-12 subunit beta; interleukin 12B; 40 kD Subunit; CLMF; CLMF 2; CLMF p40; CLMF2; Cytotoxic lymphocyte maturation factor 2; Cytotoxic lymphocyte maturation factor 2 p40; Cytotoxic lymphocyte maturation factor 40 kDa subunit; IL 12 subunit p40; IL 12B; IL-12 subunit p40; IL-12B; IL12 subunit p40; IL12B; IL12B_HUMAN; Interleukin 12 beta chain; Interleukin 12 p40; Interleukin 12 subunit beta; Interleukin 12B; Interleukin12B; Natural killer cell stimulatory factor 2; Natural killer cell stimulatory factor 40 kD subunit; NK cell stimulatory factor chain 2; NKSF; NKSF 2; NKSF2; p40; Subunit P40; T cell stimulating factor; TcMF; TSF; IL12B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Il12b
Sequence Length	335
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	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)

ADDITIONAL INFORMATION

Related Product Information for IL12B elisa kit	Background: Interleukin-12 (IL12, formerly NKSF, for natural killer cell stimulatory factor, or CLMF, for cytotoxic lymphocyte maturation factor) is a novel cytokine cloned from B-cell lines. IL-12 is a heterodimeric molecule composed of p35 and p40 subunits.¹ The larger 40-kDa subunit (p40) is a member of the cytokine receptor family, and the smaller 35-kDa subunit (p35) is related to IL6 and GCSF.² Both IL-12 p40 (-/-) and p35 (-/-) mice fail to produce IL-12 p70 heterodimer.³ Interleukin (IL)-12 has been cloned on the basis of its ability to activate natural killer (NK) cells and promote the development of cytolytic T cells. With further understanding of its activities, IL-12 has emerged as an important cytokine, affecting both immune and hematologic functions. It has been shown to be necessary for the T cell independent induction of interferon (IFN)-gamma, critical for the initial suppression of bacterial and parasitic infection; for the development of a Th1 response, critical for effective host defense against intracellular pathogens; and for the activation of differentiated T lymphocytes of both CD4+ and CD8+ phenotype. Principle of the Assay: The Picokine™ Mouse Il12b Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Il12b with a 96-well strip plate that is pre-coated with antibody specific for Il12b. The detection antibody is a biotinylated antibody specific for Il12b. The capture antibody is monoclonal antibody from rat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Il12b with immunogen: Expression system for standard: sf21; Immunogen sequence: M23-S335. The kit is analytically validated with ready-to-use reagents. To measure Mouse Il12b, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Il12b in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Il12b in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1170461
NCBI GeneID	16160
UniProt Accession #	P43432; Q9QUM1
Molecular Weight	38,235 Da
NCBI Official Full Name	Interleukin-12 subunit beta
NCBI Official Synonym Full Names	interleukin 12b
NCBI Official Symbol	Il12b
NCBI Official Synonym Symbols	p40; Il-12b; Il12p40; IL-12p40
NCBI Protein Information	interleukin-12 subunit beta; CLMF p40; IL-12 p40; IL-12 subunit p40; IL-23 subunit p40; cytotoxic lymphocyte maturation factor 40 kDa subunit
UniProt Protein Name	Interleukin-12 subunit beta
UniProt Gene Name	Il12b
UniProt Synonym Gene Names	IL-12B; CLMF p40
UniProt Entry Name	IL12B_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.