

Human IL-12 p40 ELISA Kit | IL12B elisa kit

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CATALOG # AAA261662	REACTIVITY Human	APPLICATIONS ELISA
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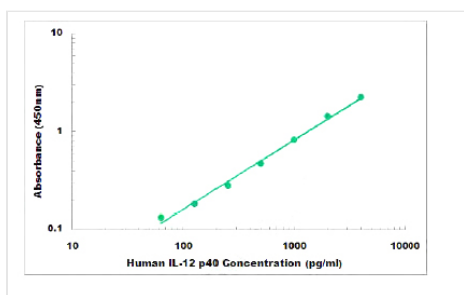
PRODUCT SYNONYMS

IL-12 p40; Human IL-12 p40 ELISA Kit; NKSF2; Interleukin-12 subunit beta; IL-12B; Cytotoxic lymphocyte maturation factor 40 kDa subunit; CLMF p40; IL-12 subunit p40; NK cell stimulatory factor chain 2; IL12B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human IL-12 p40 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human IL-12 p40 proteins within the range of 62.5 pg/ml - 4000 pg/ml.
Sequence Length	328
Samples	Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates.
Sensitivity	30 pg/ml.
Applicable Applications for IL12B elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL12B elisa kit	Principle of the Assay The Human IL-12 p40 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human IL-12 p40 in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Human IL-12 p40 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL-12 p40 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human IL-12 p40 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IL-12 p40 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: 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. 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. Both IL-12 p40 (-/-) and p35 (-/-) mice fail to produce IL-12 p70 heterodimer. 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. The subunits map to different chromosomes: p40 (IL12B) to 5q31-q33 and p35 (IL12A) to 3p12-3q13.2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	266320
NCBI GeneID	3593
UniProt Accession #	P29460
Molecular Weight	37,169 Da
NCBI Official Full Name	Interleukin-12 subunit beta
NCBI Official Synonym Full Names	interleukin 12B
NCBI Official Symbol	IL12B
NCBI Official Synonym Symbols	CLMF; NKSF; CLMF2; IMD28; IMD29; NKSF2; IL-12B
NCBI Protein Information	interleukin-12 subunit beta
UniProt Protein Name	Interleukin-12 subunit beta
UniProt Gene Name	IL12B
UniProt Synonym Gene Names	NKSF2; IL-12B; CLMF p40; NKSF2
UniProt Entry Name	IL12B_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/il12b-human-elisa-kits/il-12-p40/261662>