

Mouse IL-11 PicoKine ELISA Kit | Il11 elisa kit

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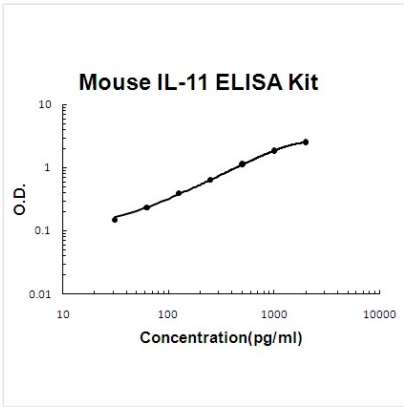
CATALOG # AAA46161	REACTIVITY Mouse
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PRODUCT SYNONYMS

IL-11 PicoKine; Mouse IL-11 PicoKine ELISA Kit; Interleukin-11; Adipogenesis inhibitory factor; AGIF; IL 11; IL-11; Il11; IL11_HUMAN; Interleukin 11; Interleukin11; Oprelvekin; interleukin 11; Il11 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse IL-11
Sequence Length	199
Assay Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of mouse IL-11 in cell culture supernates, serum and plasma(heparin, EDTA, citrate).
Immunogen	E Coli, P22-L199
Assay Procedure Step 1	Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml mouse IL-11 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. It is recommended that each mouse IL-11 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 138 716 1354 146 727 1379 Standard deviation 6.07 36.52 86.66 10.51 53.8 113.1 CV(%) 4.4 5.1 6.4 7.2 7.4 8.2
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.053 0.145 0.229 0.392 0.633 1.122 1.839 2.510
Anticoagulant	Heparin, EDTA or Citrate
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Mouse IL-11 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for IL11 elisa kit	Principle of the assay: Mouse IL-11 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for IL-11 has been precoated onto 96-well plates. Standards(E Coli, P22-L199) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-11 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 IL-11 amount of sample captured in plate. Background: Interleukin 11(IL-11) is a protein that in humans is encoded by the IL11 gene. The protein encoded by this gene is a member of the gp130 family of cytokines. This gene is mapped to 19q13.42. It is a key regulator of multiple events in hematopoiesis, most notably the stimulation of megakaryocyte maturation. IL-11 has been demonstrated to improve platelet recovery after chemotherapy-induced thrombocytopenia, induce acute phase proteins, modulate antigen-antibody responses, participate in the regulation of bone cell proliferation and differentiation and could be use as a therapeutic for osteoporosis. What's more, IL-11 can stimulate the growth of certain lymphocytes and it has functions in many other tissues, including the brain, gut, testis and bone. In transgenic mice, overexpression of the human IL11 gene resulted in the stimulation of bone formation to increase cortical thickness and strength of long bones.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6680393
NCBI GeneID	16156
NCBI Accession #	NP_032376.1
NCBI GenBank Nucleotide #	NM_008350.4
UniProt Accession #	P47873
Molecular Weight	21,522 Da
NCBI Official Full Name	interleukin-11 isoform 1
NCBI Official Synonym Full Names	interleukin 11
NCBI Official Symbol	IL11
NCBI Official Synonym Symbols	IL-11
NCBI Protein Information	interleukin-11
UniProt Protein Name	Interleukin-11

UniProt Gene Name	IL11
UniProt Synonym Gene Names	IL-11
UniProt Entry Name	IL11_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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/il-11-picokine/46161>