

Rat IL-13 ELISA Kit | IL13 elisa kit

Rat IL-13 PicoKine ELISA Kit

CATALOG #
AAA11563

REACTIVITY
Rat

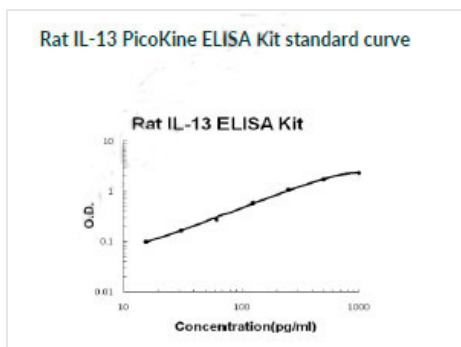
PRODUCT SYNONYMS

IL-13; Rat IL-13 PicoKine ELISA Kit; Interleukin-13; interleukin 13; ALRH; BHR 1; BHR1; Bronchial hyperresponsiveness 1 (bronchial asthma); IL 13; IL13; IL13_HUMAN; Interleukin 13; Interleukin13; MGC116786; MGC116788; MGC116789; NC30; P600; T-cell activation protein P600; IL13 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat IL13
Sequence Length	131
Samples	Cell culture supernates, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	<1pg/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 across 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)

ADDITIONAL INFORMATION

Related Product Information for IL13 elisa kit	Principle of the Assay: The Picokine™ Rat IL13 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat IL13 with a 96-well strip plate that is pre-coated with antibody specific for IL13. The detection antibody is a biotinylated antibody specific for IL13. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Rat IL13 with immunogen: Expression system for standard: E.coli; Immunogen sequence: T19-H131. The kit is analytically validated with ready to use reagents. To measure Rat IL13, 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 substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Rat IL13 in the sample. Read the density 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 Rat IL13 in the sample.!!Background/Introduction: Interleukin 13(IL-13) is a protein that in humans is encoded by the IL13 gene. IL-13 is cytokine secreted by many cell types, but especially T helper type 2(Th2) cells, that is an important mediator of allergic inflammation and disease. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor(IL-4Ralpha) and at least one of two known IL-13-specific binding chains. Most of the biological effects of IL-13, like those of IL-4, are linked to a single transcription factor, signal transducer and activator of transcription 6(STAT6). The IL13 gene is clustered with IL3, IL5, IL4, and CSF2 on 5q. Physical maps of the 5q23-q31 region show the following order: cen--IL3--CSF2--IL13--IL4--IL5--tel, with IL13 particularly close to IL4.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	1170528
NCBI GeneID	116553
UniProt Accession #	P42203
Molecular Weight	14,093 Da
NCBI Official Full Name	Interleukin-13
NCBI Official Synonym Full Names	interleukin 13
NCBI Official Symbol	IL13
NCBI Protein Information	interleukin-13; IL-13; T-cell activation protein P600
UniProt Protein Name	Interleukin-13
UniProt Gene Name	IL13
UniProt Synonym Gene Names	IL-13; IL-13
UniProt Entry Name	IL13_RAT

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.