

Mouse interleukin 27 ELISA Kit | IL27 elisa kit

Mouse Interleukin 27, IL-27 ELISA Kit

CATALOG #
AAA80320

REACTIVITY
Mouse

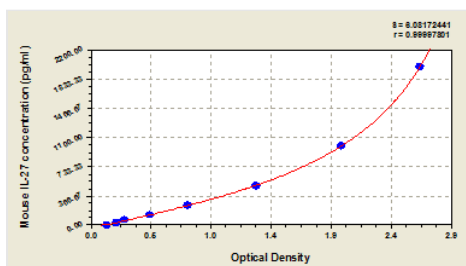
PRODUCT SYNONYMS

interleukin 27; Mouse Interleukin 27; IL-27 ELISA Kit; IL-27; IL-27A; IL27p28; IL30; MGC71873; p28; IL-27 p28 subunit; interleukin 30; interleukin-27 subunit alpha; IL27 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse IL27. No significant cross-reactivity or interference between Mouse IL27 and analogues was observed.
Sequence Length	234
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Detection Range	31.25 pg/ml-2000 pg/ml
Sensitivity	7.81 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Immunity
Protein Biological Process 3	Immunity
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL27 elisa kit

Introduction: Interleukin-27 (IL-27) is a heterodimeric cytokine belonging to the IL-12 family that is composed of two subunits, Epstein-Barr virus (EBV)-induced gene 3 (EBI3) (also known as IL-27B) and IL27-p28 (known as IL-30). IL-27 is produced by antigen-presenting cells. IL-27 plays an important function in regulating the activity of B and T lymphocytes. The effects of IL-27 are elicited by its interaction with a specific cell surface receptor complex composed of two proteins known as WSX-1 (TCCR) and gp130. IL-27 binds and signals through a heterodimeric receptor complex consisting of WSX-1 and gp130, both belonging to the cytokine receptor superfamily. WSX-1 is specific for IL-27 and is expressed on resting/naive CD4+ T cells, CD8+ T cells, NK cells, dendritic cells, monocytes, mast cells, and B cells. In contrast, gp130 is ubiquitously expressed by a variety of immune and non-immune cells and functions as a subunit of the receptor complexes for at least seven other cytokines. IL-27 has both pro- and anti-inflammatory properties. In response to infection, IL-27 induces monocytes and mast cells to secrete pro-inflammatory cytokines. It induces naive CD4+ T cells to proliferate and develop Th1 cell responses. IL-27 also promotes effector functions of NK cells and CD8+ T cells. As an anti-inflammatory immunomodulator, IL-27 has been found to have the ability to inhibit Th1 or Th2 responses and restrict the strength and duration of adaptive immune responses.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to IL-27. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for IL-27 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain IL-27, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of IL-27 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21704110
NCBI GeneID	246779
NCBI Accession #	NP_663611.1
NCBI GenBank Nucleotide #	NM_145636.1
UniProt Accession #	Q8K3I6
Molecular Weight	26,542 Da
NCBI Official Full Name	interleukin-27 subunit alpha
NCBI Official Synonym Full Names	interleukin 27
NCBI Official Symbol	IL27
NCBI Official Synonym Symbols	p28; IL30; IL-27; IL-27p28
NCBI Protein Information	interleukin-27 subunit alpha; IL27-A; IL-27-A; interleukin 30; IL-27 p28 subunit; IL-27 subunit alpha
UniProt Protein Name	Interleukin-27 subunit alpha
UniProt Gene Name	IL27
UniProt Synonym Gene Names	IL27a; IL-27 subunit alpha; IL-27-A; IL27-A
UniProt Entry Name	IL27A_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.