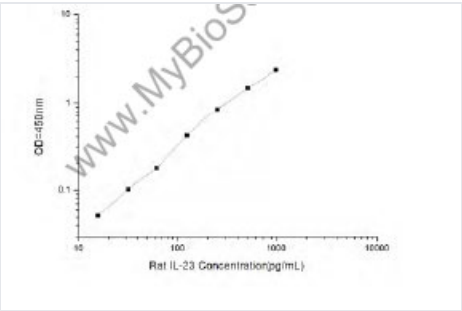
Il-23 ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	IL-23, ELISA Kit
Full Product Name	Rat IL-23 (Interleukin 23) ELISA Kit
Product Gene Name	IL-23 elisa kit
Species Reactivity	Rat
Assay Type	Sandwich
Samples	Serum, Plasma, Biological Fluids
Detection Range	15.625-1000pg/mL
Sensitivity	Min: 9.375pg/mL; Max: 1000pg/mL
Specificity	This kit recognizes natural and some recombinant Rat IL-23. No significant crossreactivity or interference between Rat IL-23 and analogues was observed.
Preparation and Storage	Store at 4 degree C.
Molecular Weight	20,730 Da
OMIM	605580
3D Structure	ModBase 3D Structure for Q9NPF7
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL-23 elisa kit	Intended Uses: This ELISA kit can be applied to the in vitro quantitative determination of Rat IL-23 concentrations in serum, plasma and other biological fluids. Principle of the Assay: This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been precoated with an antibody specific to Rat IL-23. Standards or samples are added to appropriate micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibodies specific for Rat IL-23 and Avidin-Horseradish Peroxidase (HRP) conjugate are added to each micro plate well successively and incubated. After incubation, free components are washed away. Then the Substrate Reagent is added to each well, only those wells that contain Rat IL-23, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction will be terminated by adding Stop Solution and appears yellow in color. The optical density (OD) can be measured with spectrophotometry at a wavelength of 450 nm ± 2 nm. The OD value is proportional to the concentration of Rat IL-23. The concentration of Rat IL-23 in samples can be calculated by comparing the OD of the samples with the standard curve.
Other Notes	Small volumes of IL-23 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL-23 purchase	MBS2503662 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IL-23, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IL-23. The ELISA analytical biochemical technique of the MBS2503662 kit is based on IL-23 antibody-IL-23 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL-23 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL-23. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of IL-23 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-23. It may not necessarily be applicable to this product.

NCBI GI #	7706702
NCBI GeneID	51561
NCBI Accession #	NP_057668.1
UniProt Primary Accession #	Q9NPF7
UniProt Secondary Accession #	Q6NZ80; Q6NZ82; Q9H2A5
UniProt Related Accession #	Q9NPF7
GenBank Nucleotide #	NM_016584.2
NCBI Official Full Name	interleukin-23 subunit alpha
NCBI Official Synonym Full Names	interleukin 23, alpha subunit p19
NCBI Official Symbol	IL23A
NCBI Official Synonym Symbols	P19; SGRF; IL-23; IL-23A; IL23P19
UniProt Protein Name	Interleukin-23 subunit alpha
UniProt Synonym Protein Names	Interleukin-23 subunit p19; IL-23p19
UniProt Gene Name	IL23A
UniProt Synonym Gene Names	SGRF; IL-23 subunit alpha; IL-23-A; IL-23p19
UniProt Entry Name	IL23A_HUMAN
NCBI Protein Information	interleukin-23 subunit alpha; IL-23 subunit alpha; IL-23-A; IL-23p19; JKA3 induced upon T-cell activation; interleukin 23 p19 subunit; interleukin-23 subunit p19; interleukin-six, G-CSF related factor
NCBI Summary for IL-23	This gene encodes a subunit of the heterodimeric cytokine interleukin 23 (IL23). IL23 is composed of this protein and the p40 subunit of interleukin 12 (IL12B). The receptor of IL23 is formed by the beta 1 subunit of IL12 (IL12RB1) and an IL23 specific subunit, IL23R. Both IL23 and IL12 can activate the transcription activator STAT4, and stimulate the production of interferon-gamma (IFNG). In contrast to IL12, which acts mainly on naive CD4(+) T cells, IL23 preferentially acts on memory CD4(+) T cells. [provided by RefSeq, Jul 2008]

UniProt Comments for IL-23	IL23A: Associates with IL12B to form the IL-23 interleukin, a heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak- Stat signaling cascade, stimulates memory rather than naive T- cells and promotes production of proinflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis. Belongs to the IL-6 superfamily. Protein type: Secreted; Secreted, signal peptide; Cytokine Chromosomal Location of Human Ortholog: 12q13.3 Molecular Function: protein binding; cytokine activity; interleukin-23 receptor binding Biological Process: positive regulation of granulocyte macrophage colony-stimulating factor production; positive regulation of T-helper 1 type immune response; negative regulation of interleukin-10 production; positive regulation of osteoclast differentiation; positive regulation of interleukin-12 production; positive regulation of T cell mediated cytotoxicity; tissue remodeling; positive regulation of NK T cell proliferation; positive regulation of tyrosine phosphorylation of Stat4 protein; positive regulation of NF-kappaB import into nucleus; positive regulation of activated T cell proliferation; defense response to Gram-negative bacterium; positive regulation of interleukin-10 production; positive regulation of natural killer cell activation; positive regulation of tyrosine phosphorylation of Stat3 protein; T cell proliferation; positive regulation of T cell proliferation; inflammatory response; defense response to virus; positive regulation of memory T cell differentiation; positive regulation of interleukin-17 production; positive regulation of NK T cell activation; positive regulation of natural killer cell proliferation; positive regulation of tumor necrosis factor production; regulation of tyrosine phosphorylation of Stat1 protein; positive regulation of tissue remodeling; positive regulation of interferon-gamma production; positive regulation of tyrosine phosphorylation of Stat5 protein; innate immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of defense response to virus by host; positive regulation of inflammatory response
Research Articles on IL-23	**1.** preoperative serum IL23 has no outcome prognostic value in patients with colorectal cancer
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