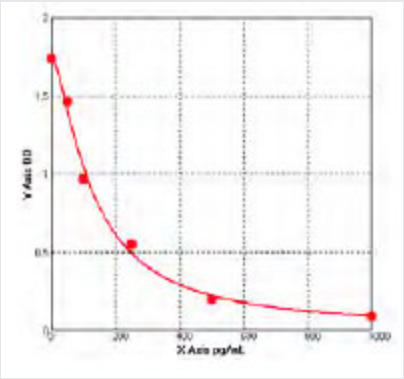
Interleukin 4 (IL4) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Interleukin 4 (IL4), ELISA Kit
Full Product Name	Chicken Interleukin 4 ELISA Kit
Product Gene Name	IL4 elisa kit
Species Reactivity	Chicken
Assay Type	Quantitative Competitive
Samples	Serum, Plasma, Cell Culture Supernatants, Body Fluid And Tissue Homogenate
Sensitivity	1.0 pg/mL.
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	15,023 Da
Chromosome Location	Chromosome: 2; NC_010444.3 (140455331..140462879). Location: 2; 2
3D Structure	ModBase 3D Structure for Q04745
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for IL4 elisa kit	Immunology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for IL4 elisa kit	Intended Uses: This IL-36beta ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse IL-36beta. This ELISA kit for research use only! Principle of the Assay: IL-36beta ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-IL-36beta antibody and an IL-36beta-HRP conjugate. The assay sample and buffer are incubated together with IL-36beta-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the IL-36beta concentration since IL-36beta from samples and IL-36beta-HRP conjugate compete for the anti-IL-36beta antibody binding site. Since the number of sites is limited, as more sites are occupied by IL-36beta from the sample, fewer sites are left to bind IL-36beta-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The IL-36beta concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of IL4 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 IL4 purchase	MBS734586 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Interleukin 4 (IL4) 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 IL4. The ELISA analytical biochemical technique of the MBS734586 kit is based on IL4 antibody-IL4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL4. 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 IL4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL4. It may not necessarily be applicable to this product.

NCBI GI #	55742622
NCBI GeneID	397225
NCBI Accession #	NP_999288.1
UniProt Primary Accession #	Q04745
UniProt Secondary Accession #	Q29054; Q8MKE6
UniProt Related Accession #	Q04745
GenBank Nucleotide #	NM_214123.1
NCBI Official Full Name	interleukin-4
NCBI Official Symbol	IL4
UniProt Protein Name	Interleukin-4
UniProt Synonym Protein Names	B-cell stimulatory factor 1; BSF-1; Lymphocyte stimulatory factor 1
Protein Family	Interleukin
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; BSF-1
UniProt Entry Name	IL4_PIG
NCBI Protein Information	interleukin-4; IL-4; BSF-1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1
UniProt Comments for IL4	Function: Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Subcellular location: Secreted. Sequence similarities: Belongs to the IL-4/IL-13 family.
Research Articles on IL4	**1.** IL-4- and IL-10-producing invariant NKT cells inhibit the Th1 cell response, but not the Th17 cell response
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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