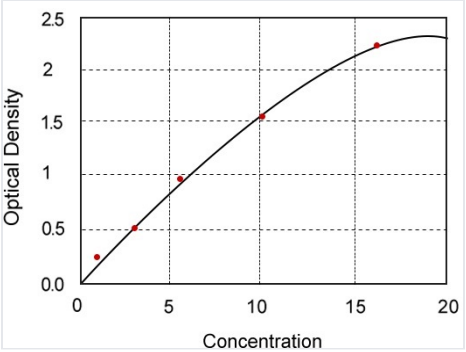
Interleukin 4, Il-4 (IL-4) ELISA Kit for Porcine

PRODUCT OVERVIEW

Product Name	Interleukin 4, IL-4, ELISA Kit
Full Product Name	Porcine Interleukin 4, IL-4 ELISA Kit
Product Gene Name	IL-4 elisa kit
Species Reactivity	Porcine
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, cell culture supernates, cell lysates, tissue homogenates
Detection Range	1ng/L - 380ng/L
Sensitivity	0.51ng/L
Preparation and Storage	Store at 2 to 8 degree C for 6 months.
Molecular Weight	15,267 Da
3D Structure	ModBase 3D Structure for O77762
Intra-Assay	CV<8%
Inter-Assay	CV<10%
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL-4 elisa kit	Intended Uses: This sandwich kit is for the accurate quantitative detection of Porcine Interleukin 4 (also known as IL-4) in serum, plasma, cell culture supernates, cell lysates, tissue homogenates. Principles of the Assay: This kit is an Enzyme-Linked Immunosorbent Assay (ELISA). The plate has been pre-coated with Porcine IL-4 antibody. IL-4 present in the sample is added and binds to antibodies coated on the wells. And then biotinylated Porcine IL-4 Antibody is added and binds to IL-4 in the sample. Then Streptavidin-HRP is added and binds to the Biotinylated IL-4 antibody. After incubation unbound Streptavidin-HRP is washed away during a washing step. Substrate solution is then added and color develops in proportion to the amount of Porcine IL-4. The reaction is terminated by addition of acidic stop solution and absorbance is measured at 450 nm.
Other Notes	Small volumes of IL-4 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-4 purchase	MBS164493 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Interleukin 4, IL-4, 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-4. The ELISA analytical biochemical technique of the MBS164493 kit is based on IL-4 antibody-IL-4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL-4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL-4. 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-4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-4. It may not necessarily be applicable to this product.

NCBI GI #	50978886
NCBI GeneID	403785
NCBI Accession #	NP_001003159.1
UniProt Primary Accession #	O77762
UniProt Secondary Accession #	A1E293
UniProt Related Accession #	O77762
GenBank Nucleotide #	NM_001003159.1
NCBI Official Full Name	interleukin-4
NCBI Official Synonym Full Names	interleukin 4
NCBI Official Symbol	IL4
NCBI Official Synonym Symbols	IL-4
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
NCBI Protein Information	interleukin-4
UniProt Comments for IL-4	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. Positively regulates IL31RA expression in macrophages.
Research Articles on IL-4	**1.** immunoreactivities of inflammatory cytokines, such as interleukin (IL)-2, its receptor (IL-2R), IL-4 and its receptor (IL-4R) in the cervical and lumbar spinal cord of young adult and aged beagle dogs, were compared.
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