

Datasheet for ABIN6719863

**IL-4 ELISA Kit****1** Image[Go to Product page](#)

## Overview

Quantity:	1 kit
Target:	IL-4 (IL4)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	7.8 pg/mL - 500 pg/mL
Minimum Detection Limit:	7.8 pg/mL
Application:	ELISA

## Product Details

Purpose:	Mouse IL-4 Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant mouse IL-4. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 1 pg/mL
Components:	<ul style="list-style-type: none"><li>• Antibody-coated 96-well plate</li><li>• Target Protein Standard</li><li>• Detection antibody</li></ul>

## Product Details

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- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

## Target Details

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Target: IL-4 (IL4)

Alternative Name: IL-4 ([IL4 Products](#))

Background: Synonyms: B cell growth factor 1, B cell stimulatory factor 1, BCGF 1, BCGF1, Binetrakin, BSF 1, BSF1, IL 4, Interleukin 4, Lymphocyte stimulatory factor 1, MGC79402, PitraKinra

Background: Interleukin-4(IL-4), also known as a B-cell stimulatory factor1(BSF1), is an immunomodulatory cytokine, which can inhibit the growth of tumour cells. The human cDNA contains a single open reading frame encoding a protein of 153 amino acids, including a putative signal peptide. IL-4 may act as an autocrine growth factor in pancreatic cancer cells and also give rise to the possibility that cancer-derived IL-4 may suppress cancer-directed immunosurveillance in vivo in addition to its growth-promoting effects, thereby facilitating pancreatic tumor growth and metastasis.<sup>1</sup> The mouse and human genes and their protein products show structural and functional similarities. The human IL-4 gene, which occurs as a single copy in the haploid genome, is mapped on chromosome 5.

Gene ID: 16189

NCBI Accession: [NP\\_067258](#)

UniProt: [P07750](#)

Pathways: [JAK-STAT Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Proton Transport](#), [Activated T Cell Proliferation](#)

## Application Details

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Application Notes: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL, 7.8pg/mL mouse IL-4 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell

## Application Details

culture supernates or serum to each empty well. We recommend that each mouse IL-4 standard solution and each sample is measured in duplicate.

Comment: Standard: Expression system for standard: E.coli, Immunogen sequence: H21-S140

Sample Volume: 100  $\mu$ L

Plate: Pre-coated

Restrictions: For Research Use only

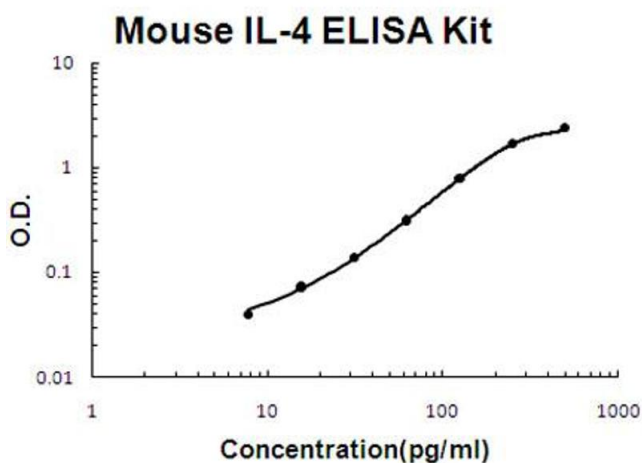
## Handling

Storage: 4  $^{\circ}$ C, -20  $^{\circ}$ C

Storage Comment: Store vials at 4 $^{\circ}$ C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4 $^{\circ}$ C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20 $^{\circ}$ C or below for 12 months. Avoid cycles of freezing and thawing.

Expiry Date: 12 months

## Images



### ELISA

**Image 1.** Mouse IL-4 Accusignal ELISA Kit Mouse IL-4 AccuSignal ELISA Kit standard curve. Assay Range: 7.8pg/ml-500pg/ml. Sensitivity: <1pg/ml.