

Datasheet for ABIN6719918
IL-6 ELISA Kit



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Overview

Quantity:	1 kit
Target:	IL-6 (IL6)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	4.69 pg/mL - 300 pg/mL
Minimum Detection Limit:	4.69 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin - citrate), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: B cell differentiation factor, B cell stimulatory factor 2, B-cell stimulatory factor 2, BSF 2, BSF-2, BSF2, CDF, CTL differentiation factor, Cytotoxic T cell differentiation factor, Hepatocyte stimulating fact, HGF, HPGF, HSF, Hybridoma growth factor, Hybridoma plasmacytoma growth factor, IFN-beta-2, IFNB2, IL 6, IL-6, IL6, IL6 protein, IL6_HUMAN, Interferon beta 2, Interferon beta-2, Interleukin 6, Interleukin 6 (interferon beta 2), Interleukin BSF 2, Interleukin-6, Interleukin6</p> <p>Background: The human interferon-beta 2 gene(IFNB2) product is identical to that for the B-cell stimulation factor-2(BSF-2), the hybridoma growth factor(HGF)("interleukin-6"), and the</p>

Product Details

hepatocyte stimulating factor(HSF). Proteins derived from this gene mediate the plasma protein response to tissue injury(acute-phase response) and regulate the growth and differentiation of both B and T cells. Interleukin-6(IL6) has come to be regarded as a potential osteoporotic factor because it has stimulatory effects on cells of the osteoclast lineage, and, thus, may play a role in the pathogenesis of bone loss associated with estrogen deficiency. IL-6 has many roles essential to the regulation of the immune response, hematopoiesis, and bone resorption. It is involved not only in the hepatic acute phase response but also in adipose tissue metabolism, lipoprotein lipase activity, and hepatic triglyceride secretion. Overproduction of IL-6, a proinflammatory cytokine, is associated with a spectrum of age-related conditions including cardiovascular disease, osteoporosis, arthritis, type 2 diabetes, certain cancers, periodontal disease, frailty, and functional decline. BSF-2 is a novel interleukin consisting of 184 amino acids. The standard product used in this kit is recombinant human IL-6, consisting of 184 amino acids with the molecular mass of 20.3 kDa.

Gene Name: IL6

Production: Natural and recombinant human IL-6 . There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: P29-M212

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL-6 (IL6 Products)
Gene ID:	3569
NCBI Accession:	NP_000591
UniProt:	B4DVM1
Pathways:	TLR Signaling , Hormone Transport , Negative Regulation of Hormone Secretion , Myometrial Relaxation and Contraction , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Regulation of Carbohydrate Metabolic Process , Autophagy , Cell RedoxHomeostasis , Cancer Immune Checkpoints , Inflammasome

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 300pg/mL, 150pg/mL, 75pg/mL, 37.5pg/mL, 18.75pg/mL, 9.38pg/mL, 4.69pg/mL human IL-6 standard solutions into the precoated 96-well plate. Add 0.1 mL of the

Application Details

sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. We recommend that each human IL-6 standard solution and each sample is measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 4.69pg/mL-300pg/mL

Other Performance Data: DOE: 4° C - 12/15/17 -20° C - 06/15/18

Sample Volume: 100 µL

Plate: Pre-coated

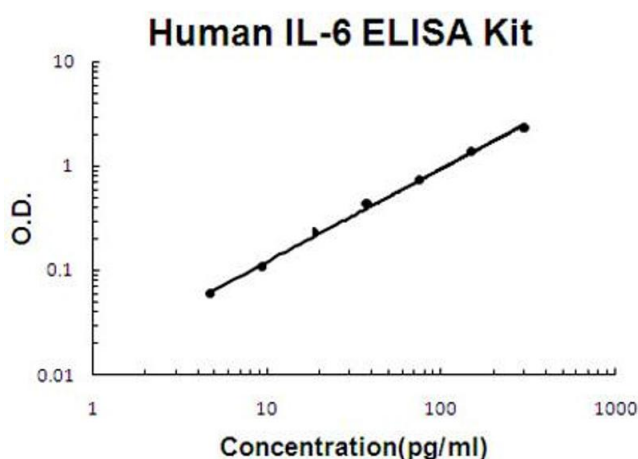
Restrictions: For Research Use only

Handling

Storage: RT,4 °C,-20 °C

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

Images



ELISA

Image 1. Human IL-6 Accusignal ELISA Kit Human IL-6 AccuSignal ELISA Kit standard curve. Assay Range: 4.69pg/ml-300pg/ml. Sensitivity: <0.3pg/ml.