

Datasheet for ABIN6720002

IL-6 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	1 kit
Target:	IL-6 (IL6)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Rat IL-6 Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin - citrate), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant rat IL-6. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 5 pg/mL
Components:	<ul style="list-style-type: none">• Antibody-coated 96-well plate• Target Protein Standard• Detection antibody

Product Details

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

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL-6 (IL6 Products)
Background:	<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: Interleukin-6(IL-6) is a protein that in humans is encoded by the IL6 gene. Interleukin-6(IL-6) is involved not only in the hepatic acute phase response but also in adipose tissue metabolism, lipoprotein lipase activity, and hepatic triglyceride secretion. IL-6 is a pleiotropic cytokine that plays a critical role in bone resorption. IL-6 has been suggested to stimulate the HPA axis during immune activation independent of the input of hypothalamic corticotropin-releasing hormone(CRH). Interleukin-6(IL-6) is an immunoregulatory cytokine that activates a cell-surface signaling assembly composed of IL-6, the IL-6 alpha-receptor(IL-6Ralpha), and the shared signaling receptor gp130. The standard product used in this kit is recombinant rat IL-6, consisting of 188 amino acids with the molecular mass of 21.8 kDa.</p>
Gene ID:	24498
NCBI Accession:	NP_036721
UniProt:	P20607
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

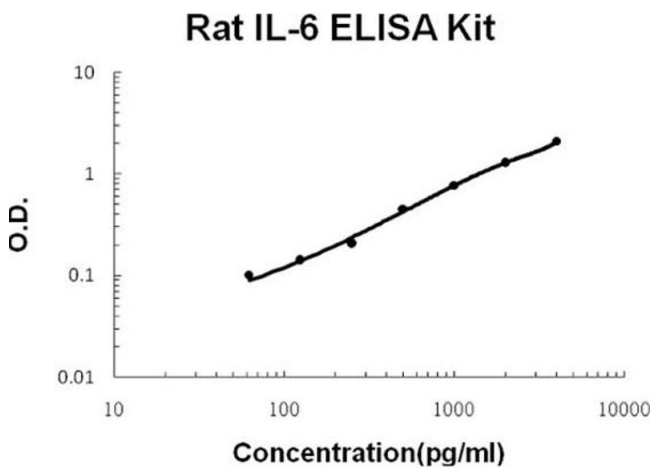
Application Details

Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL rat IL-6 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 rat cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. It is recommended that each rat IL-6 standard solution and each sample be measured in duplicate.
Comment:	Standard: Expression system for standard: E.coli, Immunogen sequence: F25-T211
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	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.
Expiry Date:	12 months

Images



ELISA

Image 1. Rat IL-6 Accusignal ELISA Kit Rat IL-6 AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <5pg/ml.