

Rat IL-6 ELISA Kit | IL6 elisa kit

Rat IL-6 ELISA Kit

CATALOG # AAA105604	REACTIVITY Rat	APPLICATIONS ELISA
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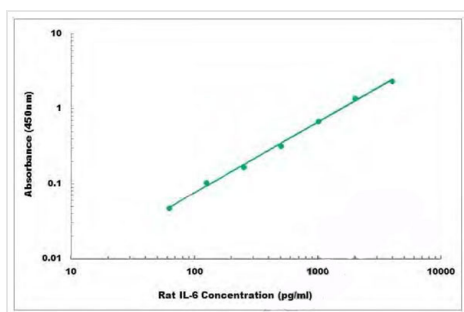
PRODUCT SYNONYMS

IL-6; Rat IL-6 ELISA Kit; IFNB2; Interleukin-6; B-cell stimulatory factor 2; BSF-2; CTL differentiation factor; CDF; Hybridoma growth factor; Interferon beta-2; IFN-beta-2; IL6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat IL-6 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat IL-6 proteins within the range of 62.5 pg/ml - 4000 pg/ml.
Sequence Length	211
Samples	Culture Supernatants, Serum, Plasma, Tissue Homogenates
Sensitivity	< 30 pg/ml
Applicable Applications for IL6 elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL6 elisa kit

Background: Interleukin 6 is a multifunctional cytokine that plays important roles in host defense, acute phase reactions, immune responses, nerve cell functions and hematopoiesis. IL-6 is a prototypic member of the IL-6 superfamily of cytokines that share gp130 as a component required for signal transduction. The rat, mouse and human IL-6 cDNAs have been cloned. Rat IL-6 cDNA encodes a 211 amino acid residue precursor polypeptide with a hydrophobic signal peptide that is cleaved to generate the 187 aa residue mature protein. At the protein sequence level, there is approximately 39% identity between rat and human, and 87% identity between mouse and rat IL-6. IL-6 is expressed by a variety of normal and transformed lymphoid and non-lymphoid cells. The production of IL-6 is up-regulated by numerous signals such as mitogenic or antigenic stimulation, lipopolysaccharides, calcium ionophores, cytokines and viruses. IL-4, IL-10 and IL-13 inhibit IL-6 expression in monocytes. Elevated serum IL-6 levels have been observed in a number of pathological conditions, including bacterial and viral infections, trauma, autoimmune diseases, inflammations and malignancies.

Principle of the Assay: The Rat IL-6 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat IL-6 in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Rat IL-6 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL-6 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat IL-6 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IL-6 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7549769
NCBI GeneID	24498
NCBI Accession #	NP_036721.1
NCBI GenBank Nucleotide #	NM_012589.2
UniProt Accession #	P20607
Molecular Weight	24,357 Da
NCBI Official Full Name	interleukin-6
NCBI Official Synonym Full Names	interleukin 6
NCBI Official Symbol	IL6
NCBI Official Synonym Symbols	ILg6; Ifnb2
NCBI Protein Information	interleukin-6; IL-6; Interleukin 6 (interferon, beta 2)
UniProt Protein Name	Interleukin-6
UniProt Gene Name	IL6
UniProt Synonym Gene Names	IL-6; IL-6
UniProt Entry Name	IL6_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/il6-rat-elisa-kits/il-6/105604>