

Human IL-6 ELISA Kit | IL-6 elisa kit

Human IL-6 ELISA KIT

CATALOG #
AAA309860

REACTIVITY
Human

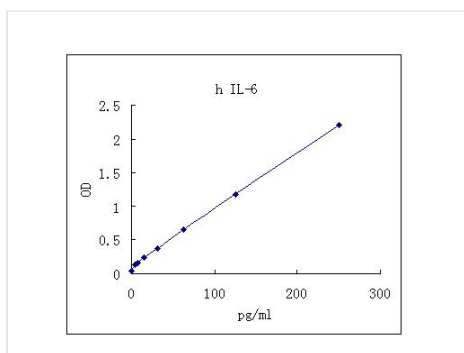
PRODUCT SYNONYMS

IL-6; Human IL-6 ELISA KIT; Human IL-6; IL-6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL-6 Ligand
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	3.9-250pg/mL
Sensitivity	2pg/mL
Assay Time	3 hours
Sample Volume	20 uL
Detection Method	Colorimetric
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

Representative standard curve for IL-6 ELISA. IL-6 was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

Related Product Information for IL-6 elisa kit

Interleukin 6 (IL-6) is a multifunctional protein produced by lymphoid and non-lymphoid cells and by normal and transformed cells, including T cells, monocyte/macrophages, fibroblasts, hepatocytes, vascular endothelial cells, cardiac myxomas, bladder cell carcinomas, myelomas, astroglomas and glioblastomas. The production of IL-6 in these cells is regulated, either positively or negatively, by a variety of signals including mitogens, antigenic stimulation, lipopolysaccharides, IL-1, TNF, PDGF and viruses. For reviews on IL-6, see references 1-5. The human IL-6 cDNA sequence predicts a protein of 212 amino acid (aa) residues in length with two potential N-glycosylation sites. The hydrophobic N-terminal 28 aa residue signal peptide is cleaved to produce a mature protein of 184 amino acids with four cysteine residues and a predicted molecular mass of 21 kDa (6-9). The mouse IL-6 cDNA sequence shows a homology of 42% at the aa level when compared with the human sequence (10). On the basis of sequence similarity and gene structural motif similarity, IL-6 can be grouped in a family of cytokines that also includes OSM, G-CSF, LIF, and CNTF. All of these cytokines are predicted to have a four helix bundle structure similar to that found for growth hormone, suggesting that they all evolved from a common ancestral gene (11-13). The effects of IL-6 on different cells are numerous and varied. The effect on B cells is stimulation of differentiation and antibody secretion (6, 14 - 17). IL-6 also affects T cells, acting as a co-stimulant with sub-optimal concentrations of PHA or Con A to stimulate IL-2 production and IL-2 receptor expression. IL-6 exhibits growth factor activity for mature thymic or peripheral T-cells and reportedly enhances the differentiation of cytotoxic T-cells in the presence of IL-2 or IFN-g (18-20). IL-6 stimulates production of acute phase proteins by hepatocytes (21) and has colony-stimulating activity on hematopoietic stem cells. IL-6 has growth factor activities and will stimulate the growth of myeloma/hybridoma/plasmacytoma cells, EBV-transformed B cells, keratinocytes and mesangial cells (4, 5).

NCBI AND UNIPROT INFORMATION

NCBI GI #	124348
NCBI GeneID	16193
UniProt Accession #	P08505; Q3UCQ0; Q8BN26
Molecular Weight	24,384 Da
NCBI Official Full Name	Interleukin-6
NCBI Official Synonym Full Names	interleukin 6
NCBI Official Symbol	IL6
NCBI Official Synonym Symbols	IL-6
NCBI Protein Information	interleukin-6
UniProt Protein Name	Interleukin-6
UniProt Gene Name	IL6
UniProt Synonym Gene Names	IL-6; IL-6

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://stage.aaabiotech.com/human-elisa-kits/il-6/309860>