

Human IL-2 ELISA Kit | IL-2 elisa kit

Human IL-2 ELISA KIT

CATALOG #
AAA309854

REACTIVITY
Human

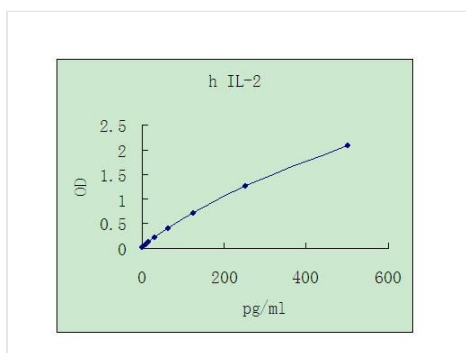
PRODUCT SYNONYMS

IL-2; Human IL-2 ELISA KIT; Human IL-2; IL-2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL-2 Ligand
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	7.8-500pg/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-2 ELISA. IL-2 was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

Related Product Information for IL-2 elisa kit	Interleukin 2 (IL-2) is a pleiotropic cytokine produced primarily by mitogen- or antigen-activated T lymphocytes (1, 2). Human IL-2 (also known as T-cell growth factor) is produced by T-cells in response to antigenic or mitogenic stimulation. IL-2 is a potent lymphoid cell growth factor which exerts its biological activity primarily on T cells promoting proliferation and maturation.IL-2 has been found to stimulate growth and differentiation of B cells, NK cells, LAK cells, monocytes, and oligodendocytes. IL-2 is involved in treatment of cancers such as melanoma and renal cell cancer. It plays a key role in promoting the clonal expansion of antigen-specific T cells. In addition, IL-2 has also been shown to mediate multiple immune responses on a variety of cell types.The sequence of human IL-2 cDNA predicts a 153 amino acid (aa) residue precursor glycoprotein containing a 20 aa residue signal peptide that is cleaved to form the mature protein (3). At the amino acid sequence level, mouse IL-2 is approximately 60% identical to human IL-2 (1, 2, 4, 5). Whereas human IL-2 is active on mouse cells, mouse IL-2 is species-specific and is inactive on human cells. The gene for IL-2 has been mapped to human chromosome 4q (6).The biological effects of IL-2 are mediated by specific cell surface receptor complexes. The functional high-affinity receptor for IL-2 is composed of three distinct polypeptide chains (7, 8).IL-2 stimulates the proliferation of thymocytes; stimulates the proliferation and differentiation of activated B cells; promotes the growth, differentiation and cytotoxic activity of monocytes; induces the growth of natural killer cells and stimulates cytokine production by these cells as well as the cytolytic activity of these cells; enhances the production of lymphocyte-activated killer (LAK) cells; and induces the proliferation and differentiation of oligodendrocytes (1, 2).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4029234
NCBI GeneID	3558
UniProt Accession #	O95974; P60568
Molecular Weight	4,762 Da
NCBI Official Full Name	IL-2, partial
NCBI Official Synonym Full Names	interleukin 2
NCBI Official Symbol	IL2
NCBI Official Synonym Symbols	IL-2; TCGF; lymphokine
NCBI Protein Information	interleukin-2
UniProt Protein Name	IL-2 protein
UniProt Gene Name	IL-2

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/human-elisa-kits/il-2/309854>