

Interleukin-2 ELISA Kit | IL-2 sRa elisa kit

Interleukin-2 Soluble Receptor alpha (IL-2 sRa)

CATALOG #
AAA77846

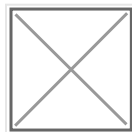
PRODUCT SYNONYMS

Interleukin-2; Interleukin-2 Soluble Receptor alpha (IL-2 sRa); IL-2 sRa elisa kit

PRODUCT SPECIFICATIONS

Specificity	This sandwich ELISA can detect both natural and recombinant human IL-2 sRalpha. This kit exhibits no significant cross-reactivity with factors related to or associated with IL-2 sRalpha such as rhIL-2, rhIL-2 sRalpha. No significant cross-reactivity was observed with recombinant human: IL-1alpha, IL-1beta, IL-1 sRI, IL-1 sRII, IL-1ra, IL-3, IL-3 sR alpha, IL-5, IL-5 sR alpha, IL-5 sRb, IL-6, IL-6 sR, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13 ANG, AR, CNTF, beta-ECGR, EGF, EPO, FGF acidic, FGF basic, FGF-4, FGF-5, FGF-6, FGF-7, GCSF, GM-CSF, sgp 130, GRO alpha, GRObeta, GROgamma, HB-EGF, HGF, INF-gamma, IGF-I IGF-II, LAP (TGF-beta1), LIF, M-CSF, MCP-1, MIP-1alpha, MIP-1beta, beta-NGF, OSN, PD-ECGF, PDGFAA, PDGF-AB, PDGF-BB, PTN, RANTES, SCF, SLPI, TGF-alpha, TGF-beta, TNF- alpha, TNF- beta, sTNF RI, sTNF RII, VEGF.
Sequence Length	272
Samples	Serum, plasma, Cell Culture Supernatant, and other biological fluids
Assay Type	Sandwich
Sensitivity	The minimum detectable quantity of human IL-2 sRalpha as observed by the standard curve generated for both Calibrator Diluent I and Calibrator Diluent II is 10 pg/mL. The two standard deviations above the mean optical density of the 20 replicates of the zero standard were defined as the minimum detectable quantities.
Intra-assay Precision	To determine within-run precision, three different samples of known concentration were assayed by replicates of twenty in 1 assay.
Inter-assay Precision	To determine between-run precision, three different samples of known concentration were assayed by replicates on 20 different assays.
Intended Uses	This Human Interleukin-2 soluble receptor alpha ELISA Kit is to be used for the in vitro quantitative determination of human interleukin-2 soluble receptor alpha (IL-2 sRalpha) concentrations in serum, plasma, cell culture supernatant, and other biological fluids. This kit is intended FOR LABORATORY RESEARCH USE ONLY and is not to be used in therapeutic procedures.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-2 sRa elisa kit	Principle of the assay: This IL-2 sRalpha enzyme linked immunosorbent assay (ELISA) applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific to IL-2 sRalpha. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for IL-2 sRalpha and incubated. IL-2 sRalpha, if present, will bind and become immobilized by the antibody pre-coated on the wells and then become "sandwiched" by biotin conjugate. The microtiter plate wells are thoroughly washed to remove unbound IL-2 sRalpha and other components of the sample. In order to quantitatively determine the amount of IL-2sRalpha present in the sample, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Avidin is a tetramer containing four identical subunits, each having a high affinity-binding site for biotin. The wells are thoroughly washed to remove all unbound HRP-conjugated Avidin and a TMB (3,3',5, 5' tetramethyl-benzidine) substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain IL-2 sRalpha, biotin-conjugated antibody, and enzyme-conjugated Avidin will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450nm +/- 2nm. In order to measure the concentration of IL-2 sRalpha in the samples this kit includes two calibration diluents (Calibrator Diluent I for serum/plasma testing and Calibrator Diluent II for cell culture supernatant testing.) According to the testing system, the provided standard is diluted (2-fold) with the appropriate Calibrator Diluent and assayed at the same time as the samples. This allows the operator to produce a standard curve of Optical Density (O.D) versus IL-2 sRalpha concentration (pg/mL). The concentration of IL-2 sRalpha in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for IL-2 sRa elisa kit	ELISA Kits for Human Cytokines and Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557667
NCBI GeneID	3559
NCBI Accession #	NP_000408.1
NCBI GenBank Nucleotide #	NM_000417.2
Molecular Weight	30,819 Da
NCBI Official Full Name	interleukin-2 receptor subunit alpha
NCBI Official Synonym Full Names	interleukin 2 receptor, alpha
NCBI Official Symbol	IL2RA
NCBI Official Synonym Symbols	p55; CD25; IL2R; TCGFR; IDDM10
NCBI Protein Information	interleukin-2 receptor subunit alpha; IL-2 receptor subunit alpha; IL-2R subunit alpha; TAC antigen
UniProt Protein Name	Interleukin-2 receptor subunit alpha
UniProt Gene Name	IL2RA
UniProt Entry Name	IL2RA_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/il-2-sra-elisa-kits/interleukin-2/77846>