

Human Interleukin-7 receptor ELISA Kit | IL7R elisa kit

Human Interleukin-7 receptor ELISA Kit

CATALOG #
AAA100752

REACTIVITY
Human

PRODUCT SYNONYMS

Interleukin-7 receptor; Human Interleukin-7 receptor ELISA Kit; IL7R/IL-7 R alpha/CD127/CD127 antigen/CD127ILRA/CDW127/CDw127/IL-7 receptor subunit alpha/IL-7R subunit alpha/IL7RA/IL-7RA/IL-7R-alpha/interleukin 7 receptor/interleukin 7 receptor alpha chain; IL7R elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of IL7R. No significant cross-reactivity or interference between IL7R and analogues was observed.
Sequence Length	459
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	1.563-100ng/ml
Sensitivity	0.938ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IL7R were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level IL7R were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a IL7R ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

X	ng/ml	0	1.562	3.125	6.25	12.5	25	50	100
Y	OD450	0.089	0.123	0.201	0.301	0.544	0.831	1.517	2.114

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL7R elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL7R antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- IL7R antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the IL7R amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL7R can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47122839
NCBI GeneID	3575
Molecular Weight	28,724 Da
NCBI Official Full Name	Interleukin 7 receptor
NCBI Official Synonym Full Names	interleukin 7 receptor
NCBI Official Symbol	IL7R
NCBI Official Synonym Symbols	ILRA; CD127; IL7RA; CDW127; IL-7R-alpha
NCBI Protein Information	interleukin-7 receptor subunit alpha
UniProt Protein Name	Interleukin-7 receptor subunit alpha
UniProt Gene Name	IL7R
UniProt Synonym Gene Names	IL-7 receptor subunit alpha; IL-7R subunit alpha; IL-7R-alpha; IL-7RA
UniProt Entry Name	IL7RA_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/il7r-human-elisa-kits/interleukin-7-receptor/100752>