

Human Interleukin 13 Receptor Alpha 1 (IL13Ra1) ELISA Kit | IL13Ra1 elisa kit

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CATALOG #
AAA190224

REACTIVITY
Human

PRODUCT SYNONYMS

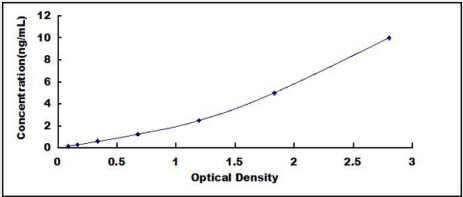
Interleukin 13 Receptor Alpha 1 (IL13Ra1); Human Interleukin 13 Receptor Alpha 1 (IL13Ra1) ELISA Kit; IL13Ra1 ELISA kit (Human); Interleukin 13 Receptor Alpha 1; CD213A1; CD213-A1; IL13R-A1; IL13-RA1; IL13R-A; NR4; CT19; Cancer/testis antigen 19; IL13Ra1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Interleukin 13 Receptor Alpha 1 (IL13Ra1). No significant cross-reactivity or interference between Interleukin 13 Receptor Alpha 1 (IL13Ra1) and analogues was observed. Reactive with Human IL13Ra1/Interleukin 13 Receptor Alpha 1
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.054ng/mL
Sample Size	100uL
Detection Method	Colormetric
Featured Series	SE kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Interleukin 13 Receptor Alpha 1 (IL13Ra1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Interleukin 13 Receptor Alpha 1 (IL13Ra1) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (regular version)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Interleukin 13 Receptor Alpha 1 (IL13Ra1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Interleukin 13 Receptor Alpha 1 (IL13Ra1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Interleukin 13 Receptor Alpha 1 (IL13Ra1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Interleukin 13 Receptor Alpha 1 (IL13Ra1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Signal transduction, Infection immunity, Rheumatology
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504647
NCBI GeneID	3597
NCBI Accession #	NP_001551.1
NCBI GenBank Nucleotide #	NM_001560.2
UniProt Accession #	P78552; O95646; Q5JSL4; Q99656
Molecular Weight	48,760 Da
NCBI Official Full Name	interleukin-13 receptor subunit alpha-1
NCBI Official Synonym Full Names	interleukin 13 receptor, alpha 1
NCBI Official Symbol	IL13RA1
NCBI Official Synonym Symbols	NR4; CD213A1; IL-13Ra
NCBI Protein Information	interleukin-13 receptor subunit alpha-1; CT19; IL-13RA1; IL-13R-alpha-1; CD213a1 antigen; IL-13R subunit alpha-1; cancer/testis antigen 19; IL13 receptor alpha-1 chain; IL-13 receptor subunit alpha-1; bB128O4.2.1 (interleukin 13 receptor, alpha 1)
UniProt Protein Name	Interleukin-13 receptor subunit alpha-1
UniProt Gene Name	IL13RA1
UniProt Synonym Gene Names	IL13R; IL13RA; IL-13 receptor subunit alpha-1; IL-13R subunit alpha-1; IL-13R-alpha-1; IL-13RA1; CT19
UniProt Entry Name	I13R1_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://www.aaabiotech.com/human-elisa-kits/interleukin-13-receptor-alpha-1-il13ra1/190224>