

Human IL13RA1/IL-13RA1 ELISA Kit | IL13RA1/IL-13RA1 elisa kit

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CATALOG #
AAA258408

REACTIVITY
Human

PRODUCT SYNONYMS

IL13RA1/IL-13RA1; Human IL13RA1/IL-13RA1 ELISA Kit; IL13RA1 ELISA Kit; Human; interleukin 13 receptor; alpha 1; CD213A1 ELISA Kit; IL-13Ra ELISA Kit; NR4 ELISA Kit; IL13RA1/IL-13RA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human IL13RA1/IL-13RA1 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	46.88-3000pg/mL
Sensitivity	22.09pg/mL
Conjugation	HRP
Interference	Preparations of IL13 prepared at 30ng/mL in a mid-range recombinant human IL13RA1 control was assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

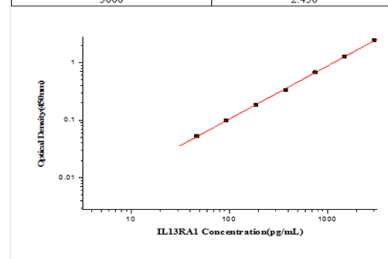
IMAGES

Recombinant human			
IL4R	IL5Ra	CSF2Rb	IL13
IL13RA2	IL1	IL2	IL4
IL6	IL8	IL10	IL33
SCF	PDGF	TNF- α	MIP-1 β
GM-CSF	IFN- γ	VEGF	TIMP1
TIMP2			
Recombinant mouse			
IL13RA1	IL13		

Application Data

This assay recognizes both recombinant and natural Human IL13RA1. The factors listed above were prepared at 50 or 100ng/mL in dilution buffer and assayed for cross-reactivity. No cross -reactivity was observed. Preparations of IL13 prepared at 30ng/mL in a mid-range recombinant human IL13RA1 control was assayed for interference. No significant interference was observed.

Concentration (pg/mL.)	Zero standard subtracted OD
0	0
46.88	0.053
93.75	0.098
187.5	0.184
375	0.337
750	0.674
1500	1.268
3000	2.450



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for IL13RA1/IL-13RA1 elisa kit	This IL13RA1 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human IL13RA1 protein in Serum. It contains recombinant Human IL13RA1, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Interleukin 13 receptor, alpha 1, also known as IL13RA1/IL-13RA1 and CD213A1 (cluster of differentiation 213A1), is a subunit of the interleukin 13 receptor. This subunit forms a receptor complex with IL4 receptor alpha, a subunit shared by IL13 and IL4 receptors. IL13RA1/IL-13RA1 serves as a primary IL13-binding subunit of the IL13 receptor, and may also be a component of IL4 receptors. This protein has been shown to bind tyrosine kinase TYK2 and thus may mediate the signaling processes that lead to the activation of JAK1, STAT3, and STAT6 induced by IL13 and IL4. IL13RA1/IL-13RA1 binds with low affinity to interleukin-13 (IL13). This subunit together with IL4RA can form a functional receptor for IL13. IL13RA1/IL-13RA1 also serves as an alternate accessory protein to the common cytokine receptor gamma chain for interleukin-4 (IL4) signaling, but cannot replace the function of IL2RG in allowing enhanced interleukin-2 (IL2) binding activity.
References	Kawakami M, et al. (2002) Mutation and functional analysis of IL-13 receptors in human malignant glioma cells. Oncol Res. 12 (11-12): 459-67. Umeshita-Suyama R, et al. (2000) Characterization of IL-4 and IL-13 signals dependent on the human IL-13 receptor alpha chain 1: redundancy of requirement of tyrosine residue for STAT3 activation. Int Immunol. 12 (11): 1499-509. He JQ, et al. (2003) Polymorphisms in the IL13, IL13RA1, and IL4RA genes and rate of decline in lung function in smokers. Am J Respir. Cell Mol Biol. 28 (3): 379-85.

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/il13ra1-il-13ra1/258408>