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Datasheet for KOA0541

Rat IL-13 ELISA Kit

Overview

Description:	Rat IL-13 AccuSignal ELISA Kit - KOA0541
Item No.:	KOA0541
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	15.6 pg/ml - 1000 pg/ml

Product Details

Background:	Interleukin 13(IL-13) is a protein that in humans is encoded by the IL13 gene. IL-13 is cytokine secreted by many cell types, but especially T helper type 2(Th2) cells, that is an important mediator of allergic inflammation and disease. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor(IL-4Ralpha) and at least one of two known IL-13-specific binding chains. Most of the biological effects of IL-13, like those of IL-4, are linked to a single transcription factor, signal transducer and activator of transcription 6(STAT6). The IL13 gene is clustered with IL3, IL5, IL4, and CSF2 on 5q. Physical maps of the 5q23-q31 region show the following order: cen--IL3--CSF2--IL13--IL4--IL5--tel, with IL13 particularly close to IL4.
Synonyms:	Allergic rhinitis, ALRH, BHR 1, BHR1, Bronchial hyperresponsiveness 1 (bronchial asthma), IL 13, IL-13, Il13, IL13_HUMAN, Interleukin 13, Interleukin-13, Interleukin13, MGC116786, MGC116788, MGC116789, NC30, P600
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	IL13
Reactivity:	Rat
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: T19-H131

Purity/Specificity:	Natural and recombinant rat IL-13. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P42203 • NCBI - NP_446280.1 • GeneID - 116553 • KOA0541 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml rat IL-13 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each rat IL-13 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	DOE: 2-8° C - 2/08/2018 -20° C - 8/9/2018

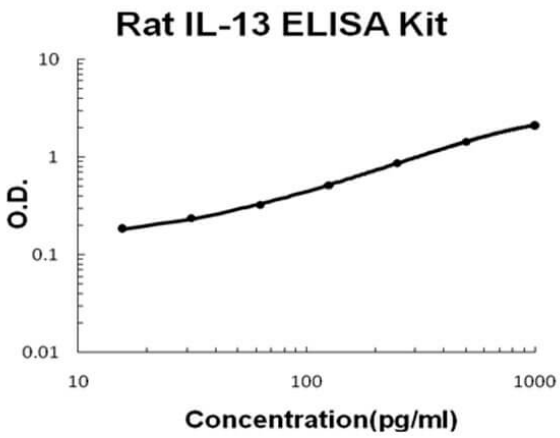
Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images



ELISA
Rat IL-13 AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.

Disclaimer

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