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Datasheet for KOA0223

Human IL-5 ELISA Kit

Overview

Description:	Human IL-5 AccuSignal ELISA Kit - KOA0223
Item No.:	KOA0223
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	7.8 pg/ml - 500 pg/ml

Product Details

Background:	Interleukin-5(IL-5) is also known as eosinophil differentiation factor(EDF). IL-5 is a potential candidate gene in the pathogenesis of asthma, as it is the main cytokine controlling eosinophil activity and eosinophils are pivotal in the development of airway inflammation. The predicted amino acid sequence of 134 amino acids is identical with that recently reported for human interleukin-5 but shows no significant homology with other known hemopoietic growth regulators. IL-5 is a lineage-specific hematopoietic growth factor that stimulates the production of eosinophils and eosinophil colonies from normal human bone marrow cells. IL-5 gene to human chromosome 5 at bands q23-31. Human and mouse of IL-5 share 70% amino acid sequence homology.
Synonyms:	B cell differentiation factor I, B-cell differentiation factor I, Colony stimulating factor eosinophil, EDF, Eosinophil differentiation factor, IL 5, IL-5, IL5, IL5_HUMAN, Interleukin 5, Interleukin 5 (colony stimulating factor eosinophil), Interleukin-5 Interleukin5, T cell replacing factor, T-cell replacing factor, TRF
Detection Kit Type:	ELISA Kit
Detection Range:	7.8 pg/ml - 500 pg/ml
Sensitivity:	<2 pg/ml

Target Details

Gene Name:	IL5
Reactivity:	Human

Immunogen:	Expression system for standard: SF21; Immunogen sequence: I20-S134
Purity/Specificity:	Natural and recombinant human IL-5. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P05113 • NCBI - NP_000870.1 • GeneID - 3567 • KOA0223 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.3pg/ml, 15.6pg/ml, 7.8pg/ml human IL-5 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 human cell culture supernates, serum, plasma(heparin, EDTA) or urine to each empty well. It is recommended that each human IL-5 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.

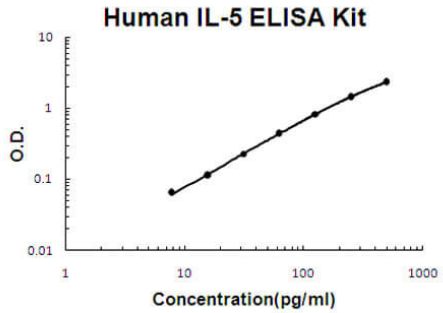
Formulation

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
Human IL-5 AccuSignal ELISA Kit standard curve. Assay Range: 7.8pg/ml-500pg/ml. Sensitivity: <2pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.