

Datasheet for KOA0824**Human IL-37 - IL1F7 ELISA Kit****Overview**

Description:	Human IL-37/IL1F7 AccuSignal ELISA Kit - KOA0824
Item No.:	KOA0824
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	15.6 pg/ml - 1000 pg/ml

Product Details

Background:	Interleukin 37(IL-37) also named IL1F7, is a protein that in humans is encoded by the IL1F7 gene. The protein encoded by this gene is a member of the interleukin 1 cytokine family. And it is mapped to 2q13. In vitro expression analysis showed that IL-37 was a secretory protein. And IL-37 could play an important role in the link between innate and adaptive immunity and may be useful for tumor immunotherapy. Meanwhile, IL-37 inhibits the production of inflammatory cytokines in peripheral blood mononuclear cells of patients with systemic lupus erythematosus. In addition, IL-37 can emerged as a dual-function cytokine with intra- and extracellular properties for suppressing innate inflammation. Furthermore, IL-37 is a new anti-inflammatory cytokine that plays an important role in protecting against tissue injury during infections via limiting immune and inflammatory reactions.
Synonyms:	FIL1, FIL1 zeta, FIL1(ZETA), FIL1Z, IL 1 zeta, IL 1F7, IL 1H4, IL 1RP1, IL 1X, IL 1X protein, IL-1 zeta, IL-1F7, IL-1H, IL-1H4, IL-1RP1, IL-1X, IL-37, IL1F7, IL1F7_HUMAN, IL1H4, IL1RP1, Interleukin 1 family member 7, interleukin 1 family member 7 (zeta), Interleukin 1 homolog 4, Interleukin 1 related protein, Interleukin 1 superfamily z, Interleukin 1 zeta, Interleukin 37, Interleukin-1 family member 7, Interleukin-1 homolog 4, Interleukin-1 zeta, Interleukin-1-related protein, Interleukin-23
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name: IL37

Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: V46-D218
Purity/Specificity:	Natural and recombinant human IL-37. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q9NZH6 • NCBI - NP_055254.2 • GeneID - 27178 • KOA0824 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, 31.3pg/ml, 15.6pg/ml human IL-37 standard solutions into the pre-coated 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 or plasma(heparin, EDTA) to each empty well. We recommend that each human IL-37 standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	15.6 pg/ml-1000 pg/ml
Other:	DOE: 2-8° C - 01/01/2023 -20° C -07/01/2023

Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

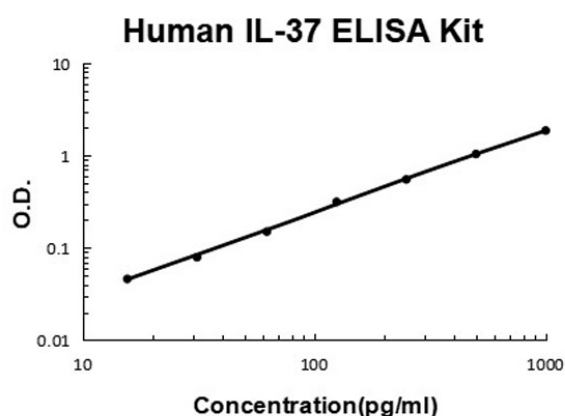
Shipping & Handling

Shipping Condition:	Wet Ice
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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-37/IL1F7 ELISA Kit standard curve.

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.