

Datasheet for 600-401-BX7**IL-37 Antibody****Overview**

Description:	Anti-IL-37 (RABBIT) Antibody - 600-401-BX7
Item No.:	600-401-BX7
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Interleukin 37 (IL-37) is a member of the interleukin 1 cytokine family (reviewed in 1). It can bind to, and may be a ligand for interleukin 18 receptor (IL18R1/IL-1Rrp). IL-37 also binds to interleukin 18 binding protein (IL18BP), an inhibitory binding protein of interleukin 18 (IL18), and subsequently forms a complex with IL18 receptor beta subunit, and through which it inhibits the activity of IL18 (1). IL-37 can also interact with Smad3 and expression of IL-37 in macrophages or epithelial cells resulted in near complete suppression of pro-inflammatory cytokines, suggesting that IL-37 may act as a natural suppressor of the innate inflammatory and immune responses (2,3).
Synonyms:	IL-37 Antibody , FIL1, FIL1Z, IL-1H, IL-37, IL1F7, IL1H4, IL-1F7, IL-1H4, IL1RP1, IL-1RP1, FIL1(ZETA), Interleukin-37, FIL1 zeta
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL37
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-IL-37 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the N-terminus of human IL-37.

Purity/Specificity: Anti-IL-37 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. IL-37 antibody is human specific. Multiple isoforms of IL-37 are known to exist; this antibody will only detect the largest isoform. IL-37 antibody is predicted to not cross-react with IL-36.

Relevant Links:

- [UniProtKB - Q9NZH6](#)
- [GeneID - 27178](#)
- [NCBI - NP_055254](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-IL-37 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 24 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: User Optimized

IF: User Optimized

IHC: User Optimized

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/ml by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

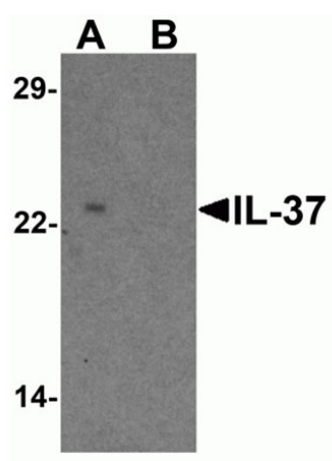
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

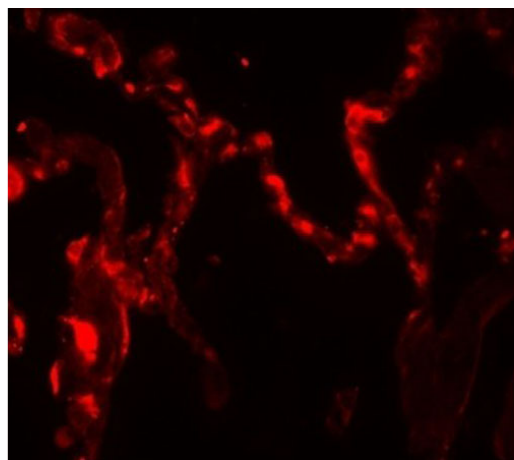


Western Blot

Western blot of IL-37.

Load: human lung tissue lysate.

Primary Antibody: IL-37 antibody at 1 µg/ml in (A) the presence and (B) the absence of blocking peptide.

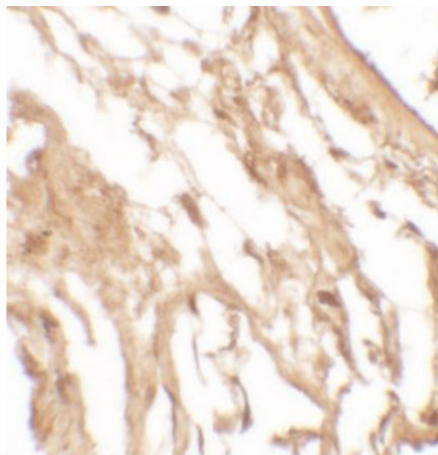


Immunofluorescence Microscopy

Immunofluorescence of IL-37.

Tissue: human kidney tissue.

Primary Antibody: IL-37 antibody at 20µg/mL.

**Immunohistochemistry**

Immunohistochemistry of IL-37.

Tissue: human kidney tissue.

Primary Antibody: IL-37 antibody at 5µg/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.