

Datasheet for 209-401-B32S**IL-17A Antibody****Overview**

Description:	Anti-Human IL-17A (RABBIT) Antibody - 209-401-B32S
Item No.:	209-401-B32S
Size:	25 µL
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	IL17-A (also known as Interleukin-17) is a proinflammatory cytokine produced by activated T cells. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. IL17-A is the founding member of a group of cytokines called the IL-17 family. IL17-A was originally identified as a transcript from a rodent T-cell hybridoma. To elicit its functions, IL17 binds to a type I cell surface receptor called IL17R of which there are at least three variants IL17RA, IL17RB, and IL17RC. Anti-IL-17 antibody is ideal for investigators involved in cytokines, growth factors, cancer, and immunology research.
Synonyms:	rabbit anti-Interleukin-17A antibody, rabbit anti-IL-17A antibody, IL-17A, Interleukin-17A, Cytotoxic T-Lymphocyte-associated Antigen 8, CTLA8, Interleukin-17, IL17, IL-17, Interleukin17
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL17A
Reactivity:	Human
Immunogen Type:	Recombinant Protein

Immunogen:	IL-17A Antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human IL17-A protein.
Purity/Specificity:	Anti-IL-17A Antibody was affinity purified from monospecific antiserum by Protein A Purification. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant human IL17-A in cell supernatants and certain body fluids. A control of similarly diluted normal rabbit IgG is recommended. Cross-reactivity with IL-17 from other sources has not been determined.
Relevant Links:	• NCBI - AAH662531.1 • UniProtKB - Q16552 • GeneID - 3605

Application Details

Tested Applications:	IHC, WB
Application Note:	IL-17-A antibody has been tested for use in IHC and western blotting and is suitable in ELISA. By western blot a band approximately ~17.5 kDa in size corresponding to human IL-17-A protein is expected in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:1:000 - 1:5,000
IHC:	1:100
WB:	1:500 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	None

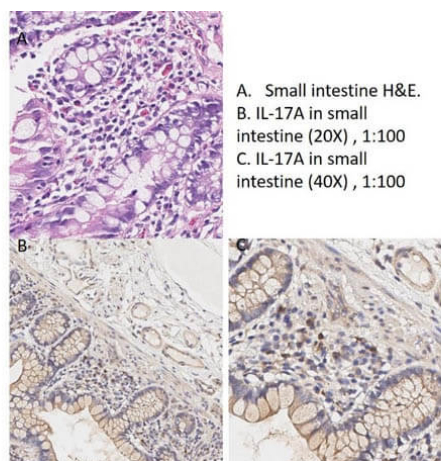
Shipping & Handling

Shipping Condition:	Dry Ice
----------------------------	---------

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

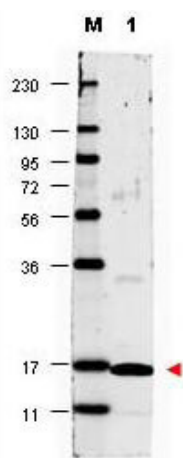
Expiration: Expiration date is three (3) months from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Rabbit Anti-human IL-17A Antibody. Tissue A: Human Small intestine H&E. Tissue B: IL-17A in Small intestine (20X). Tissue C: IL-17A in Small intestine (40X). Antigen Retrieval: HIER using Citrate Buffer for 20 min. Primary Antibody: anti-IL-17A at 1:100 at RT for 30min. Secondary Antibody: Ready To Use Anti-Rabbit Poly-HRP IgG at RT for 8 min. Staining: DAB. Counter Stain: Hematoxylin.



Western Blot

Western blot using Rockland's anti-Human IL17-A antibody shows detection of a band ~17 kDa in size corresponding to recombinant human IL17-A (lane 1). Molecular weight markers are also shown (M). After transfer, the membrane was blocked overnight with 3% BSA in TBS followed by reaction with primary antibody at a 1:1,000 dilution. Detection occurred using DyLight 649 conjugated anti-Rabbit IgG (p/n 611-143-122) secondary antibody diluted 1:20,000 in blocking buffer (p/n MB-070). Image was captured using VersaDoc™ MP 4000 imaging system (Bio-Rad).

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.