

Anti-Human IL-17A (RABBIT) Antibody - 209-401-B32
Code: 209-401-B32

Size: 100 µg

Product Description: Anti-Human IL-17A (RABBIT) Antibody - 209-401-B32

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

PhysicalState: Lyophilized

Label	Unconjugated
Host	Rabbit
Gene Name	IL17A
Species Reactivity	human
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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.
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
Application Note	IL-17A antibody has been tested for use in ELISA, IHC, and western blotting. By western blot a band approximately ~17.5 kDa in size corresponding to human IL17-A protein is expected in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Background	IL17-A (also known as Interleukin-17) is a pro-inflammatory 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-17A antibody is ideal for investigators involved in cytokines, growth factors, cancer, and Immunology research.
Purity And Specificity	Anti-IL-17 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 IL-17A 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.
Assay Dilutions	User Optimized
ELISA	1:1,000 - 1:5,000
Western Blot	1:500 - 1:2,000
Immunohistochemistry	1:100
Other Assays	User Optimized
Expiration	Expiration date is six (6) months from date of opening.
Immunogen	IL-17A Antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human IL17-A protein.

General Reference

Shin,J.H., Shin,D.W. and Noh,M. (2009) Interleukin-17A inhibits adipocyte differentiation in human mesenchymal stem cells and regulates pro-inflammatory responses in adipocytes. *Biochem. Pharmacol.* 77 (12), 1835-1844. Yin,Y., Wen,S., Li,G. and Wang,D. (2009) Hypoxia enhances stimulating effect of amyloid beta peptide (25-35) for interleukin 17 and T helper lymphocyte subtype 17 upregulation in cultured peripheral blood mononuclear cells. *Microbiol. Immunol.* 53 (5), 281-286. Paust,H.J., Turner,J.E., Steinmetz,O.M., Peters,A., Heymann,F., Holscher,C., Wolf,G., Kurts,C., Mittrucker,H.W., Stahl,R.A. and Panzer,U. (2009) The IL-23/Th17 axis contributes to renal injury in experimental glomerulonephritis. *J. Am. Soc. Nephrol.* 20 (5), 969-979.

Related Products

209-401-B31	Anti-Human IL-17F (RABBIT) Antibody - 209-401-B31
209-401-B32S	Anti-Human IL-17A (RABBIT) Antibody - 209-401-B32S
209-403-B32	Anti-Human IL-17A (RABBIT) Antibody Peroxidase Conjugated - 209-403-B32
212-401-B32	Anti-Rat IL-17A (RABBIT) Antibody - 212-401-B32

Related Links

UniProtKB - Q16552

<http://www.uniprot.org/uniprot/Q16552>

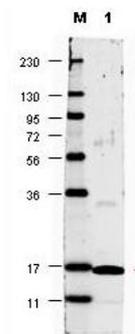
NCBI - AAH662531.1

[http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Protein&list_uids=42542803&dopt=GenPept&RID=0U5X2WK9016&log\\$=protalign&blast_rank=1](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Protein&list_uids=42542803&dopt=GenPept&RID=0U5X2WK9016&log$=protalign&blast_rank=1)

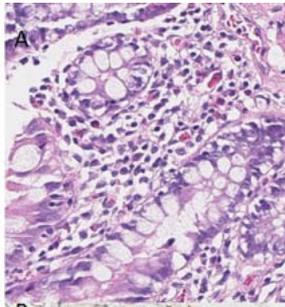
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Images

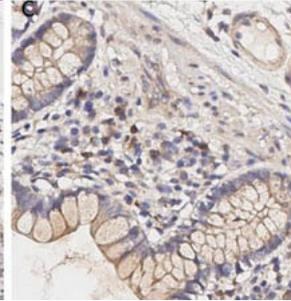
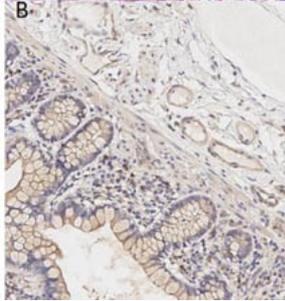
- Western blot using Rockland's anti-Human IL17-A antibody shows detection of a band ~17 kDa in size corresponding to recombinant human IL17-A (lane 1). Molecular weight markers are also shown (M). After transfer, the membrane was blocked overnight with 3% BSA in TBS followed by reaction with primary 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).



- 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.



A. Small intestine H&E.
B. IL-17A in small intestine (20X) , 1:100
C. IL-17A in small intestine (40X) , 1:100



Disclaimer

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