Anti-Human IL-17A (RABBIT) Antibody - 209-401-B32S

Code: 209-401-B32S **Size:** 25 µL

Product Description: Anti-Human IL-17A (RABBIT) Antibody - 209-401-B32S

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

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	IL17A
Species Reactivity	human
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.1% (w/v) Sodium Azide
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.
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-17-A 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 IL-17-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 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 reseach.
Purity And 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.
ELISA	1:1:000 - 1:5,000
Western Blot	1:500 - 1:2,000
Immunohistochemistry	1:100
Expiration	Expiration date is three (3) 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-B32	Anti-Human IL-17A (RABBIT) Antibody - 209-401-B32

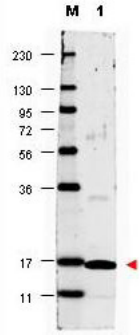
209-403-B32	Anti-Human IL-17A (RABBIT) Antibody Peroxidase Conjugated - 209-403-B32
212-401-B32	Anti-Rat IL-17A (RABBIT) Antibody - 212-401-B32

Related Links

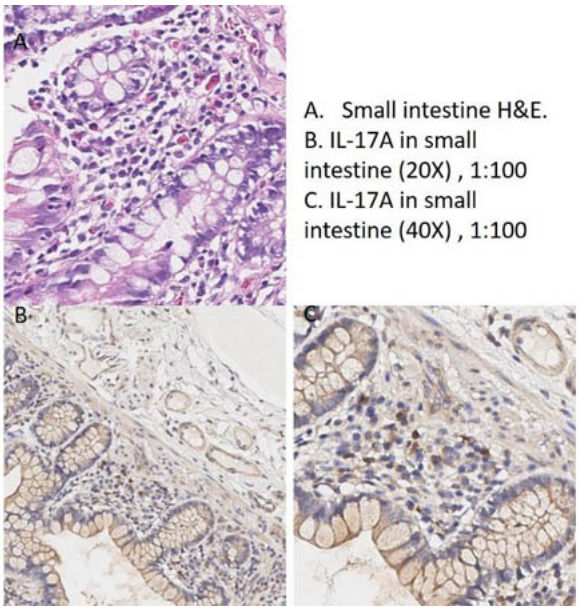
	NCBI - AAH662531.1
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Protein&list_uids=42542803&dopt=GenPept&RID=0U5X2WK9016&log$=protalign&blast_rank=1	
UniProtKB - Q16552	http://www.uniprot.org/uniprot/Q16552
	GeneID - 3605

Images

1 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).



2 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.



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