

Datasheet for 212-406-B32**IL-17A Antibody Biotin Conjugated****Overview**

Description:	Anti-Rat IL-17A (RABBIT) Antibody Biotin Conjugated - 212-406-B32
Item No.:	212-406-B32
Size:	100 µg
Applications:	WB, ELISA
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Rat IL17-A (also known as Interleukin-17, Cytotoxic T-lymphocyte-associated antigen 8 and CTLA-8) is a proinflammatory cytokine member of a six-species family of proteins (IL-17A-17F). Rat IL-17A protein is a homodimer consisting of two 134 amino acids peptides. IL-17A is secreted mainly by activated CD4+ and CD8+ T lymphocytes and acts through its receptor, IL-17R, to induce the expression of many mediators of inflammation, most strikingly, those that are involved in the proliferation, maturation and chemotaxis of neutrophils. Elevated levels of IL-17A have been associated with several conditions, including rheumatoid arthritis, airway inflammation, allograft rejection, inflammatory bowel disease, psoriasis, cancer and multiple sclerosis. There is 58% identity between the amino acid sequence of human and rat IL-17A. Anti-IL-17A antibody is ideal for investigators involved in Immunology research.
Synonyms:	rabbit anti-IL-17A biotin Conjugated Antibody, rabbit anti-Interleukin-17A biotin Conjugated Antibody, Interleukin17, IL-17, Cytotoxic T-lymphocyte-associated antigen 8 and CTLA-8
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	10-20

Target Details

Gene Name:	Il17a
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Reactivity:	Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant rat IL17-A protein.
Purity/Specificity:	This purified antibody has been heated to 56°C for 30 minutes. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant rat IL17-A in cell supernatants and certain body fluids. A control of similarly diluted normal rabbit IgG is recommended.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - Q61453• NCBI - Q61453.1• GeneID - 301289

Application Details

Tested Applications:	WB
Suggested Applications:	ELISA (Based on references)
Application Note:	This purified antibody has been tested for use in western blotting and suitable in ELISA. By western blot a band approximately 30.0 kDa in size corresponding to rat IL17-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:	1:20,000 - 1:100,000
IHC:	1:1,000-1:5,000
WB:	1:2,000-1:10,000

Formulation

Physical State:	Lyophilized
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:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL

Reconstitution Buffer: Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition: Ambient

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.

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

Images



Western Blot

Western Blot showing detection of Rat IL-17A. 50ng of Rat IL-17A (Lane 1) was run on a 4-20% gel and transferred to 0.45 µm nitrocellulose. After blocking with 5% Blotto (p/n B501-0500) 30 min at 20°C, Anti-Rat IL-17A (RABBIT) Antibody Biotin Conjugated (p/n 212-406-B32) secondary antibody was used at 1:5000 in Blocking Buffer for Fluorescent Western Blotting (p/n MB-070). HRP Streptavidin (p/n S000-03) was used at 1:40,000 in MB-070 for 30 min at 20°C and imaged using the Bio-Rad VersaDoc® 4000 MP. Arrow indicates correct 15 kDa molecular weight position expected for Rat IL-17A.

References

- Ayyaswamy S et al. Obstructive Sleep Apnea-Induced Hypertension Is Associated With Increased Gut and Neuroinflammation. *J Am Heart Assoc.* (2023)

Disclaimer

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