



[Go to Product page](#)

Datasheet for ABIN964795
anti-Interleukin 17a antibody

2 Images

Overview

Quantity:	100 µg
Target:	Interleukin 17a (IL17A)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	<p>This Protein A purified monoclonal antibody was produced in rats by repeated immunizations with full length recombinant mouse IL-17A protein (produced in E.coli) followed by hybridoma development.</p> <p>Immunogen Type: RecombinantProtein</p>
Clone:	20B4-G10-F5
Isotype:	IgG2a kappa
Specificity:	<p>This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for mouse Il-17a protein. Cross-reactivity with Il-17a from other sources has not been determined.</p>
Characteristics:	<p>Mouse Interleukin-17A (IL-17A), also known as CTLA-8, is a proinflammatory cytokine member of a six-species family of proteins (IL-17A-17F). Mouse 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</p>

Product Details

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 mouse IL-17A.

Purification: purified

Sterility: Sterile filtered

Target Details

Target: Interleukin 17a (IL17A)

Alternative Name: IL-17A ([IL17A Products](#))

Background: Mouse Interleukin-17A (IL-17A), also known as CTLA-8, is a proinflammatory cytokine member of a six-species family of proteins (IL-17A-17F). Mouse 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 mouse IL-17A.

Synonyms: Interleukin-17A cytokine, IL-17A, IL-17, Cytotoxic T-lymphocyte-associated antigen 8, CTLA-8

Gene ID: 16171

NCBI Accession: [NP_034682](#)

UniProt: [Q62386](#)

Application Details

Application Notes: This purified antibody has been tested for use in western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 23 kDa in size corresponding to the mature mouse IL17A protein, a non-glycosylated polypeptide chain consisting of 207 amino acids, by western blotting in appropriate cell lysate or extract.

Comment: Gene Name: IL17a

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 2.94 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

Storage Comment: 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 date is three (3) months from date of opening.

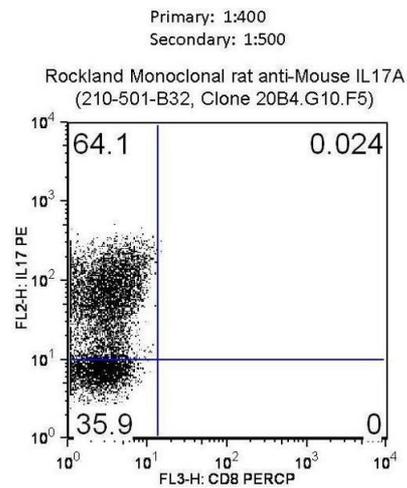
Expiry Date: 3 months

Images



Western Blotting

Image 1. Western Blot showing detection of Mouse IL-17A. 100 ng of Mouse IL-17A was run on a 4-20% gel and transferred to 0.45 µm nitrocellulose. After blocking with 1% BSA-TTBS, diluted to 1X) 30 min at 20°C, Anti-Mouse IL-17A (RAT) Antibody was used at 1:1000 in 1% BSA-TTBS overnight at 4°C. Peroxidase conjugated Rabbit Anti-mouse secondary antibody was diluted in Blocking Buffer for Fluorescent Western Blotting at 1:40,000 for 30 min at 20°C and imaged using the Bio-Rad 4000 MP. Band indicates correct 23 kDa molecular weight position expected for Mouse IL-17A.



Flow Cytometry

Image 2. monoclonal anti IL-17A was used to detect IL17A and separate Mouse CD4⁺ Cells by flow cytometry. Mouse CD4⁺ T cells were isolated from freshly dissected spleen by centrifugation in T cell separation media and selected by magnetic separation. Cells were grown on plates coated with anti-CD3 antibody, and stimulated with: 5 µg/mL anti-CD28, 10 ng/mL IL-1beta, 50 ng/mL mouse IL-6, 1 ng/mL TGFbeta1 and 10 µg/mL anti-mouse IFN γ over 8-10 days of culture. Cells were incubated for 15-20 minutes with Add rat anti-mouse CD4 APC at a concentration of 0.125 µg/mL, washed, fixed and permeabilized and incubated with Rat anti mouse IL-17A monoclonal Antibody (210-501-B32) or controls as shown. Cells were washed, incubated in streptavidin conjugated PE, fixed and analyzed by Flow cytometry. Shown here are results for 's monoclonal anti mouse IL-17A antibody (210-501-B32)