Datasheet for ABIN7505987

anti-Interleukin 17a antibody (FITC)

3 Images

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Overview

Quantity:	100 tests
Target:	Interleukin 17a (IL17A)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Interleukin 17a antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu IL-17A FITC
Immunogen:	mammalian-derived human IL-17-IgG fusion protein, boost with recombinant human IL-17A
Clone:	9F9
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 9F9 recognizes human interleukin 17A (IL-17A, secreted or intracellular).
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	Interleukin 17a (IL17A)

Target Details

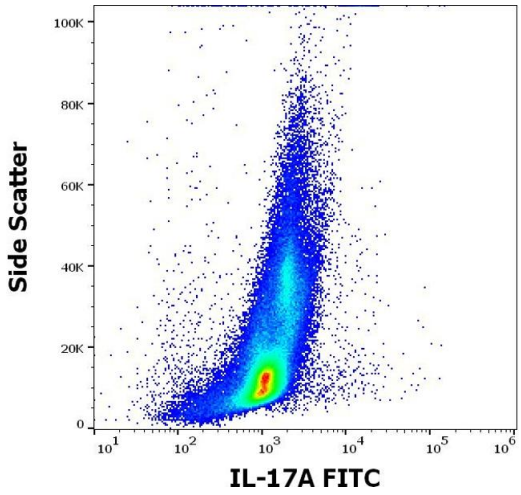
Alternative Name:	IL-17A (IL17A Products)
Background:	Interleukin 17A,Interleukin 17A (IL-17A) is a proinflammatory cytokine produced by activated T cells. IL-17A-mediated downstream pathways induce the production of inflammatory molecules, chemokines, antimicrobial peptides, and remodeling proteins. It plays an important role in connecting T cell-mediated adaptive immunity and acute inflammatory response to destroy extracellular bacteria and fungi. It is the signature effector cytokine of Th17 cells, and in this role it primarily induces neutrophil activation and recruitment at infection and inflammatory sites. High levels of IL-17A are associated with rheumatoid arthritis, psoriasis, multiple sclerosis, and another inflammatory diseases, including lung injugy during severe COVID 19. This cytokine also contributes to germinal center formation by regulating the chemotactic response of B cells to CXCL12 and CXCL13, enhancing retention of B cells within the germinal centers, B cell somatic hypermutation rate and selection toward plasma cells. It is an effector cytokine for invariant NKT cells (iNKT), and it is involved in epithelial barrier formation upon injury.,Interleukin 17
Gene ID:	3605
UniProt:	Q16552

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. Intracellular staining.
Restrictions:	For Research Use only

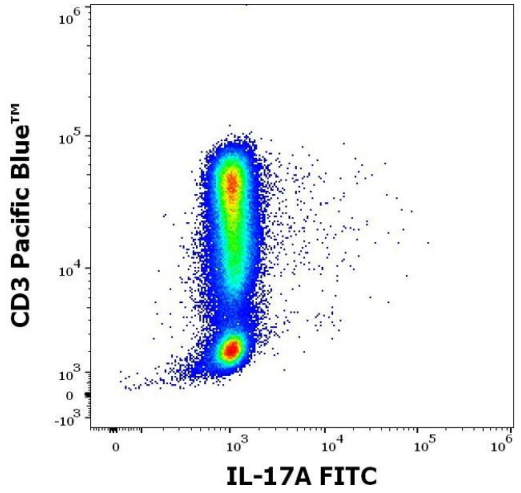
Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
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
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



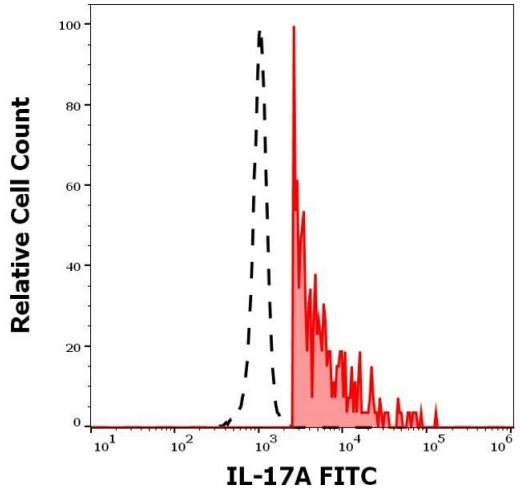
Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of PHA stimulated and Brefeldin A treated human peripheral whole blood stained using anti-human IL-17A (9F9) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Flow cytometry multicolor surface staining pattern of PHA stimulated and Brefeldin A treated human lymphocytes using anti-human CD3 (UCHT1) Pacific Blue antibody (4 µL reagent / 100 µL of peripheral whole blood) and intracellular staining using anti-human IL-17A (9F9) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 3. Separation of human CD17A positive CD3 positive lymphocytes (red-filled) from CD17A negative CD3 negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of PHA stimulated and Brefeldin A treated human peripheral whole blood stained using anti-human IL-17A (9F9) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).