

Mouse anti-Human IL-17A Antibody | anti-IL-17A antibody

Anti-Hu IL-17A Biotin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129330	Mouse	Human	Immunoprecipitation, ELISA, Flow Cytometry, Functional Assay, Immunocytochemistry

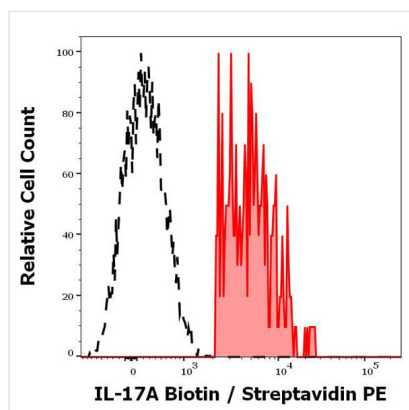
PRODUCT SYNONYMS

IL-17A; Anti-Hu IL-17A Biotin; interleukin 17A; Interleukin 17; anti-IL-17A antibody

PRODUCT SPECIFICATIONS

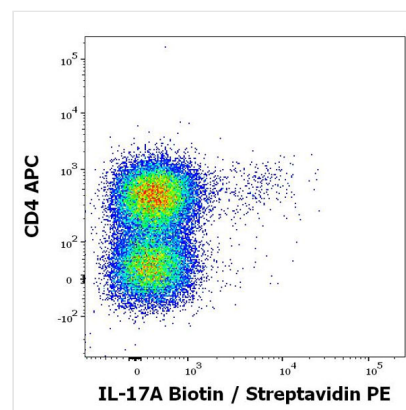
Host	Mouse
Reactivity	Human
Isotype	Mouse IgG1 kappa
Clone Number	9F9
Specificity	The mouse monoclonal antibody 9F9 recognizes human interleukin 17A (IL-17A; secreted or intracellular).
Purity/Purification	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Form/Format	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-IL-17A antibody	IP (Immunoprecipitation), ELISA, FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry)
Immunogen	mammalian-derived human IL-17-IgG fusion protein, boost with recombinant human IL-17A
Conjugation	Biotin
Preparation and Storage	Store at 2-8 degree C. Do not freeze.

IMAGES



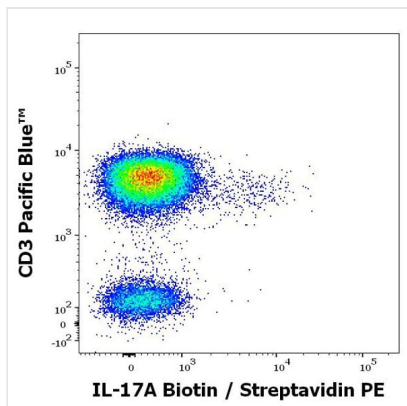
FCM/FACS (Flow Cytometry)

Separation of human CD3 positive IL-17A positive lymphocytes (red-filled) from CD3 negative IL-17A negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of PMA + Ionomycin stimulated and Brefeldin A treated human peripheral whole blood stained using anti-human IL-17A (9F9) Biotin antibody (concentration in sample 0.5ug/ml, Streptavidin PE).



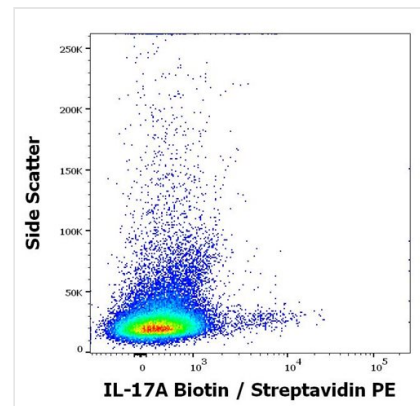
FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of PMA + Ionomycin stimulated and Brefeldin A treated human lymphocytes using anti-human CD4 (MEM-241) APC antibody (10ul reagent/100ul of peripheral whole blood) and intracellular staining of human lymphocytes using anti-human IL-17A (9F9) Biotin antibody (concentration in sample 0.5ug/ml, Streptavidin PE).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of PMA + Ionomycin stimulated and Brefeldin A treated human lymphocytes using anti-human CD3 (UCHT1) Pacific Blue antibody (4ul reagent/100ul of peripheral whole blood) and intracellular staining of human lymphocytes using anti-human IL-17A (9F9) Biotin antibody (concentration in sample 0.5ug/ml, Streptavidin PE).



FCM/FACS (Flow Cytometry)

Flow cytometry intracellular staining pattern of PMA + Ionomycin stimulated and Brefeldin A treated human peripheral whole blood stained using anti-human IL-17A (9F9) Biotin antibody (concentration in sample 0.5ug/ml, Streptavidin PE).

ADDITIONAL INFORMATION

Related Product Information for anti-IL-17A antibody

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 injury 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504651
NCBI GeneID	3605
NCBI Accession #	NP_002181.1
NCBI GenBank Nucleotide #	NM_002190.2
UniProt Accession #	Q16552; Q5T2P0
Molecular Weight	17,504 Da
NCBI Official Full Name	interleukin-17A
NCBI Official Synonym Full Names	interleukin 17A
NCBI Official Symbol	IL17A
NCBI Official Synonym Symbols	IL17; CTLA8; IL-17; IL-17A
NCBI Protein Information	interleukin-17A; CTLA-8; cytotoxic T-lymphocyte-associated antigen 8; cytotoxic T-lymphocyte-associated protein 8; interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8)
UniProt Protein Name	Interleukin-17A
UniProt Gene Name	IL17A
UniProt Synonym Gene Names	CTLA8; IL17; IL-17; IL-17A; CTLA-8
UniProt Entry Name	IL17_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/il-17a/129330>