

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

Mouse anti-Human IL-17A Monoclonal Antibody, Purified

CATALOG #
AAA267195

REACTIVITY
Human

PRODUCT SYNONYMS

IL-17A; Monoclonal Antibody; Mouse anti-Human IL-17A Monoclonal Antibody; Purified; anti-IL-17A antibody

PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1, ?
Clone Number	64CAP17
Form/Format	Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide.
Concentration	0.5 mg/ml (varies by lot)
Sequence Length	155

Experimental Methods	The following is a general protocol, optimization is required for best results of your experiment. 1. Use Human Mononuclear Cells Separation Medium to harvest PBMCs from heparinized whole blood. [Human Mononuclear Cells Separation Medium: Cat.: E16-25610] 2. Add appropriate amount of cell stimulation cocktail and protein transport inhibitor cocktail, and incubate for 4-6 hours in 5% CO₂ at 37°C.(the stimulation time for different cytokines is different.) [Cell Stimulation Cocktail: Cat.: E16-FXP048] [Protein Transport Inhibitor Cocktail: Cat.: E16-FXP050] [Cell Stimulation Cocktail plus protein transport inhibitors: Cat.: E16-FXP049] 3. Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant; 4. Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant; Perform cell surface staining 5. Add 0.5 ml PBS wash buffer to resuspend the cells. 6. Add appropriate amount of cell surface antibodies to the bottom of flow tube mixing with the PBMCs, incubate for 20 minutes at room temperature away from light; 7. Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant; Perform Cytokines antibody staining 8. Resuspend cells in 0.5 ml/tube Fixation Buffer and incubate 10min at RT(recommended: Fixation Buffer ,Cat.: E16-FXP008); 9. Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant; 10. Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant; 11. Resuspend fixed cells in 1.5 ml/tube Permeabilization Buffer and incubate 10min at RT(recommended: Permeabilization Buffer ,Cat.: E16-FXP009); 12. Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant; 13. Resuspend fixed/permeabilized cells in the approximate 100 μl Permeabilization Buffer and add appropriate amount of purified anti-human IL-17A antibody to the bottom of flow tube, incubate for 20 minutes at room temperature; 14. Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant; 15. Add appropriate amount of fluorescent-labeled anti-mouse IgGs and incubate for 20 minutes away from light at room temperature. 16. Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant; 17. Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant; 18. Add 0.5 ml PBS wash buffer to resuspend the cells and detect by flow cytometry (sample should be determined on the day on the machine and can also be added fixation overnight at 4°C then measured). [PBS wash buffer: PBS +1% FBS +0.1% NaN₃; Cat.:E16- FXP005] [Cell fixation: 2% formaldehyde solution]
Notices	1. This reagent has been pre-diluted for use at the recommended Volume per Test; 2. We typically use 1 X 10⁶ cells in a 100 μl experimental sample (a test); 3. Since applications vary, each investigator should titrate the reagent to obtain optimal results; 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing; 5. If the sample can not be timely analyzed, please fix; 6. For research use only
Preparation and Storage	Store at 4°C. DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.

ADDITIONAL INFORMATION

Related Product Information for anti-IL-17A antibody	IL-17A is the founding member of the IL-17 family, a group of six structurally related pro-inflammatory cytokines. IL-17A, secreted by activated CD4⁺ Th17 cell subpopulation, elicits multiple biological activities on a variety of cells including: the induction of IL-6, IL-8, G-CSF, and PGE2 production in epithelial, endothelial or fibroblasts; the enhancement of surface expression of ICAM-1 in fibroblasts; activation of NF-κB and costimulation of T cell proliferation. Recent studies demonstrated that, in mice, activated IL-17-secreting CD4⁺ helper T cells (Th17 cells) mediate an autoimmune arthritis that clinically and immunologically resembles rheumatoid arthritis (RA). Human IL-17A shows 63%, 63%, and 72% amino acid sequence identity to rat IL-17A, mouse IL-17A, and a protein encoded by the ORF13 gene of herpesvirus Saimiri (HVS), respectively.
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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
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; CTLA-8; IL-17A
NCBI Protein Information	interleukin-17A
UniProt Protein Name	Interleukin-17A
UniProt Gene Name	IL17A
UniProt Synonym Gene Names	CTLA8; IL17; IL-17; IL-17A; CTLA-8

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/monoclonal/il-17a-antibody-clone-64cap17-elisa/267195>