

Product Data Sheet

FITC anti-human IL-17A

Catalog # / Size: 512303 / 25 tests
512304 / 100 tests

Clone: BL168

Isotype: Mouse IgG1, κ

Immunogen: Recombinant full length human IL-17A

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: ICFC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Description: 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- κ B 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.

Antigen References:

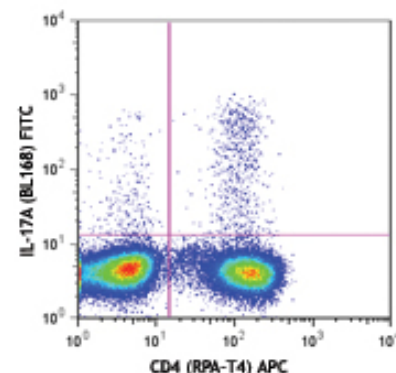
1. Hirota K, *et al.* 2007. *J. Exp. Med.* 204:41.
2. Furuzawa-Carballeda J, *et al.* 2007. *Autoimmun. Rev.* 6:169.
3. Witowski J, *et al.* 2007. *Kidney Int.* 71:514.
4. Gaffen SL, *et al.* 2006. *Vitam. Horm.* 74:255.
5. Hymowitz S, *et al.* 2001. *EMBO J.* 20:5332.

Related Products:

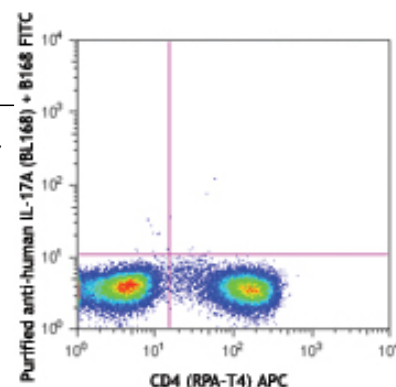
Product	Clone
Cell Staining Buffer	
Fixation Buffer	
Permeabilization Wash Buffer (10X)	
RBC Lysis Buffer (10X)	
Brefeldin A Solution (1,000X)	
Monensin Solution (1,000X)	
FITC Mouse IgG1, κ Isotype Ctrl (ICFC)	MOPC-21

Application

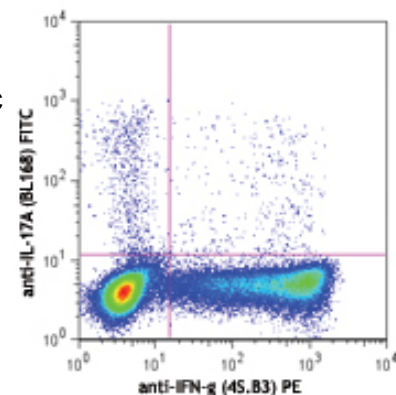
FC, ICC, ICFC
ICC, ICFC
ICC, ICFC,
IHC
FC, ICFC
ICFC
ICFC
ICFC



PMA (50 ng/ml) + ionomycin (1 μ g/ml)-stimulated (6 hours + monensin, 2 μ M) human peripheral blood lymphocytes were intracellularly stained with CD4 (RPA-T4) APC and anti-IL-17A (BL168) FITC.



Intracellularly stained anti-human IL-17A (BL168) FITC was blocked by purified B168.



PMA + ionomycin stimulated human peripheral blood lymphocytes were intracellularly stained with anti-IFN- γ (4S.B3) PE and IL-17A (BL168) FITC.



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