

# Product Data Sheet

## Purified anti-human IL-17A

**Catalog # / Size:** 512301 / 50 µg  
 512302 / 500 µg

**Clone:** BL168

**Isotype:** Mouse IgG1, κ

**Immunogen:** Recombinant full length human IL-17A

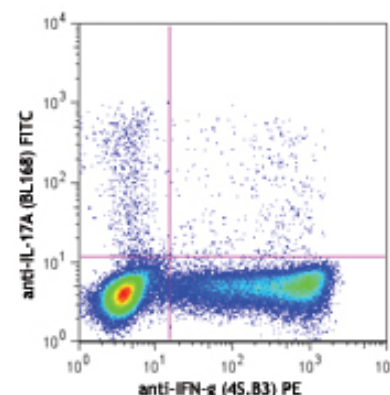
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



PMA (50 ng/ml) + ionomycin (1 µg/ml)-stimulated (6 hours + monensin, 2 µM) human peripheral blood lymphocytes intracellularly stained with anti-IFN $\gamma$  (4S.B3) PE and anti-IL-17A (BL168) FITC

## Applications:

**Applications:** ICFC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is  $\leq 0.25$  µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**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<sup>+</sup> 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<sup>+</sup> 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	Application
FITC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Cell Staining Buffer		FC, ICC, ICFC
Fixation Buffer		ICC, ICFC
Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC
RBC Lysis Buffer (10X)		FC, ICFC
Brefeldin A Solution (1,000X)		ICFC
Monensin Solution (1,000X)		ICFC
Purified Mouse IgG1, κ Isotype Ctrl	MG1-45	FC, ICC, ICFC, IF, IHC, IP, WB



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