

# Product Data Sheet

## PerCP/Cy5.5 anti-human IL-17A

**Catalog # / Size:** 512313 / 25 tests  
512314 / 100 tests

**Clone:** BL168

**Isotype:** Mouse IgG1,  $\kappa$

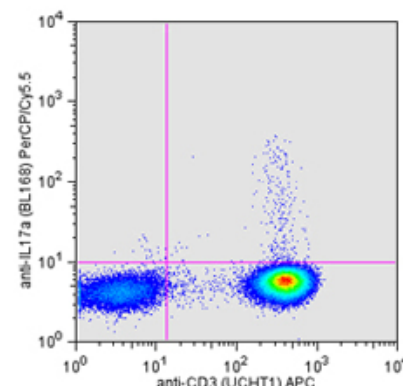
**Immunogen:** Recombinant full length human IL-17A

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

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

**Storage:** The IL-17A antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. **Do not freeze.**



PMA (50 ng/ml) + ionomycin (1  $\mu$ g/ml)-stimulated (6 hours + monensin, 2  $\mu$ M) human peripheral blood lymphocytes intracellularly stained with BL168 PerCP/Cy5.5 and CD3 (UCHT1) APC

## Applications:

**Applications:** ICFC - *Quality tested*

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5  $\mu$ l per million cells or 20  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

**Application References:** 1. Peelen E, *et al.* 2013. *J Neuroimmunol.* 52:5728. PubMed.

**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- $\kappa$ B 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**  
Cell Staining Buffer  
PerCP/Cy5.5 Mouse IgG1,  $\kappa$  Isotype Ctrl

**Clone**  
MOPC-21

**Application**  
FC, ICC, ICFC  
FC, ICFC



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