

**Pacific Blue™ anti-human IL-17A**

**Catalog # / Size:** 3161555 / 25 tests  
3161560 / 100 tests

**Clone:** BL168

**Isotype:** Mouse IgG1, κ

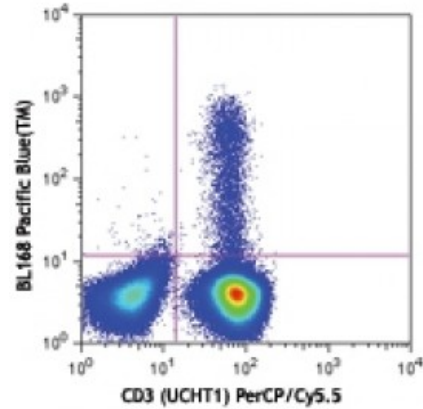
**Immunogen:** Recombinant full length human IL-17A

**Reactivity:** Human

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

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

**Concentration:** Lot-specific



PMA (50 ng/ml) +ionomycin (1 microg/ml)-stimulated (6 hours + monensin, 2 μM) human peripheral blood lymphocytes intracellularly stained with BL168 Pacific Blue™ and CD3 (UCHT1) PerCP/Cy5.5

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per 10<sup>6</sup> cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

**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:**
- Hirota K, *et al.* 2007. *J. Exp. Med.* 204:41.
  - Furuzawa-Carballeda J, *et al.* 2007. *Autoimmun. Rev.* 6:169.
  - Witowski J, *et al.* 2007. *Kidney Int.* 71:514.
  - Gaffen SL, *et al.*