

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse IL-17/IL-17A in direct ELISAs.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 881309
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse IL-17/IL-17A Thr22-Ala158 Accession # Q62386
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

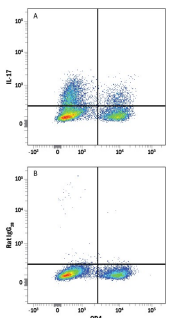
**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	5 µL/10 <sup>6</sup> cells	See Below

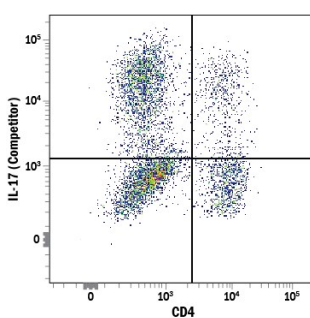
**DATA**

**Intracellular Staining by Flow Cytometry**



**Detection of IL-17/IL-17A in Mouse Splenocytes Stimulated to Induce Th17 Cells by Flow Cytometry.** Mouse splenocytes stimulated to induce Th17 cells were stained with Rat Anti-Mouse CD4 APC-conjugated Monoclonal Antibody (Catalog # FAB554A) and either (A) Rat Anti-Mouse IL-17/IL-17A Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC7211G) or (B) Rat IgG<sub>2B</sub> Alexa Fluor 488 Isotype Control (Catalog # IC013G). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for [Staining Intracellular Molecules](#).

**Intracellular Staining by Flow Cytometry**



**Detection of IL-17/IL-17A in Mouse Splenocytes Stimulated to Induce Th17 Cells by Flow Cytometry.** Mouse splenocytes stimulated to induce Th17 cells were stained with Anti-Mouse IL-17/IL-17A Phycoerythrin-conjugated Monoclonal Antibody (Competitor) and Rat Anti-Mouse CD4 APC-conjugated Monoclonal Antibody (Catalog # FAB554A). Quadrant markers were set based on control antibody staining (Catalog # IC013P). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for [Staining Intracellular Molecules](#).

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> ● 12 months from date of receipt, 2 to 8 °C as supplied.

**BACKGROUND**

Interleukin 17 (IL-17), also known as IL-17A and CTLA-8, is a T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpes virus Saimiri. cDNA clones encoding IL-17 have been isolated from activated rat, mouse and human T cells. Mouse IL-17 cDNA encodes a 158 amino acid (aa) residue precursor protein with a 26 amino acid residue signal peptide that is cleaved to yield the 132 aa residue mature IL-17. Both recombinant and natural IL-17 have been shown to exist as disulfide linked homodimers and IL-17 is typically found as a heterodimer with IL-17F. At the amino acid level, mouse IL-17 shows 57%, 61%, and 87% sequence identity with herpes virus, human, and rat IL-17, respectively. An IL-17 specific mouse cell surface receptor (IL-17 R) has been cloned. While the expression of IL-17 mRNA is restricted to activated alpha beta TCR<sup>+</sup>CD4<sup>+</sup>CD8<sup>-</sup> T cells, the expression of mouse IL-17 R mRNA has been detected in virtually all cells and tissues tested. IL-17 has multiple biological effects on a variety of cells including the induction of IL-6 and IL-8 production by fibroblasts, the enhancement of surface expression of ICAM-1 on fibroblasts, and the activation of NF-κB and costimulation of proliferation by T cells.

**PRODUCT SPECIFIC NOTICES**

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.