

**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.

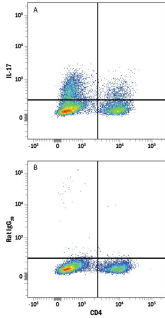
**APPLICATIONS**

**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

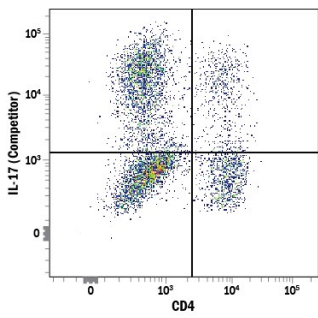
**DATA**

**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> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

**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.

**Mouse IL-17/IL-17A**  
**Alexa Fluor® 488-conjugated Antibody**

Monoclonal Rat IgG<sub>2B</sub> Clone # 881309

Catalog Number: IC7211G  
25 TESTS

**PRODUCT SPECIFIC NOTICES**

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