

**PE Anti-Mouse IL-12/IL-23 p40 (C17.8) Antibody**  
**Catalog # ATB10217****Specification****PE Anti-Mouse IL-12/IL-23 p40 (C17.8) Antibody - Product Information**

Application	FC
Isotype	Rat IgG2a, kappa
Concentration	0.2 mg/mL
Reactivity	Mouse
Formulation	10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 0.1% gelatin, pH7.2
Host	Rat

**PE Anti-Mouse IL-12/IL-23 p40 (C17.8) Antibody - Additional Information**

Gene ID	16160
Gene Name	Il12b

**Alternative Name(s)**

Interleukin-12, IL12 / Interleukin-23, IL23 p40, Cytotoxic lymphocyte maturation factor (CLMF), Natural killer cell stimulatory factor (NKSF), CTL maturation factor (TcMF), T-cell stimulating factor (TSF)

**Format**

PE

**Preparation**

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

**Application Notes**

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

**Storage Conditions**

2-8°C protected from light

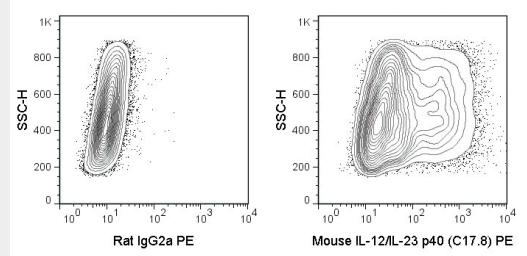
**PE Anti-Mouse IL-12/IL-23 p40 (C17.8) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

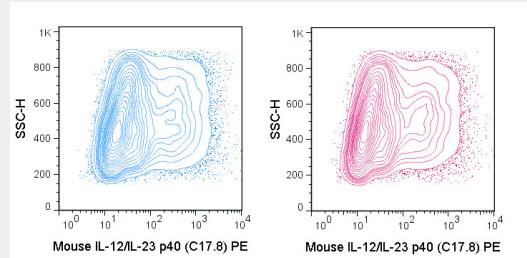
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PE Anti-Mouse IL-12/IL-23 p40 (C17.8) Antibody - Images



Mouse macrophages were stimulated in the presence of a protein transport inhibitor. Cells were then fixed, permeabilized and stained intracellularly with 0.125 ug PE Anti-Mouse IL-12/IL-23 p40 (ATB10217) (left panel) or 0.125 ug PE Rat IgG2a (left panel).



Mouse macrophages were stimulated in the presence of a protein transport inhibitor. Cells were then fixed, permeabilized and stained intracellularly with 0.125 ug PE Anti-Mouse IL-12/IL-23 p40 (C17.8) manufactured by Tonbo Biosciences (left panel) or eBio

### PE Anti-Mouse IL-12/IL-23 p40 (C17.8) Antibody - Background

The C17.8 antibody is specific for the 40 kDa (p40) protein subunit shared by the cytokines IL-12 and IL-23. To form IL-12, p40 assembles with a separate 35 kDa protein known as p35, resulting in a 70 kDa functional cytokine. IL-12 is secreted by activated monocytes, macrophages, and dendritic cells, and has been shown to target naïve, resting CD4+ T cells to promote their proliferation and secretion of cytokines. IL-23 contains the p40 subunit in combination with a 19 kDa protein chain, p19; its primary source being activated dendritic cells and other antigen-presenting cells. IL-23 appears to target different cell types than IL-12, acting on memory CD4+ T cells to induce a strong proliferative response and contributing to the generation and expansion of Th17 cells. Like the cytokines themselves, the receptors for IL-12 and IL-23 share one subunit, as well as containing distinct cytokine-specific subunits. As the C17.8 antibody binds to a shared subunit of both IL-12 and IL-23, it may be used as a marker for either IL-12 or IL-23 expression in dendritic cells, monocytes and macrophages, and is widely used for neutralization of activity associated with either cytokine.