

**In Vivo Ready™ Anti-Mouse IL-4 (11B11) Antibody**  
**Catalog # ATB10157****Specification**

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**In Vivo Ready™ Anti-Mouse IL-4 (11B11) Antibody - Product Information**

Application	IHC-F, IF, FC, E, FA
Isotype	Rat IgG1, kappa
Concentration	2 mg/mL
Reactivity	Mouse
Formulation	10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, pH7.2
Host	Rat

**In Vivo Ready™ Anti-Mouse IL-4 (11B11) Antibody - Additional Information**

Gene ID	16189
Gene Name	IL4

**Alternative Name(s)**

IL4, Interleukin-4, BSF-1 , nale, na/le, leaf, ultra leaf, ultra-leaf, functional grade

**Format**

In Vivo Ready™

**Preparation**

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

**Application Notes**

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

**Endotoxin Level**

Less than or equal to 0.01 EU/ug, as determined by the LaL assay

**Storage Conditions**

2-8°C

**In Vivo Ready™ Anti-Mouse IL-4 (11B11) 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](#)

**In Vivo Ready™ Anti-Mouse IL-4 (11B11) Antibody - Images****In Vivo Ready™ Anti-Mouse IL-4 (11B11) Antibody - Background**

The 11B11 antibody binds to mouse Interleukin-4 (IL-4), a 14 kDa cytokine that is largely secreted by activated T cells of the Th2 subset, and to some degree by NKT and mast cells. This cytokine acts as a stimulatory factor for B cells, inducing their proliferation and differentiation, as well as playing a role in immunoglobulin class-switching. IL-4 may also provide autocrine stimulation for T cells, and affect the function of antigen presenting cells such as macrophages and dendritic cells. IL-4 can bind and signal via three cell surface receptor types: CD124 by itself, CD124 in combination with the common gamma chain (type I complex), or CD124 combined with CD213a1 (type II complex). The 11B11 antibody is widely used for detection of intracellular levels of IL-4 protein by flow cytometry, as well as for analysis of soluble cytokine as measured by ELISA, and in functional assays to neutralization cytokine-receptor interactions.