

Datasheet for ABIN7278035  
**anti-IL-4 antibody (APC)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	100 µg
Target:	IL-4 (IL4)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL-4 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

## Product Details

Clone:	11B11
Isotype:	IgG1 kappa
Purification:	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.

## Target Details

Target:	IL-4 (IL4)
Alternative Name:	IL-4 ( <a href="#">IL4 Products</a> )
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.

## Target Details

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.

Gene ID: 16189

UniProt: [P07750](#)

Pathways: [JAK-STAT Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Proton Transport](#), [Activated T Cell Proliferation](#)

## Application Details

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.

Comment: 0.2 mg/mL

Restrictions: For Research Use only

## Handling

Buffer: 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09 % Sodium azide, 0.1 % gelatin, pH 7.2

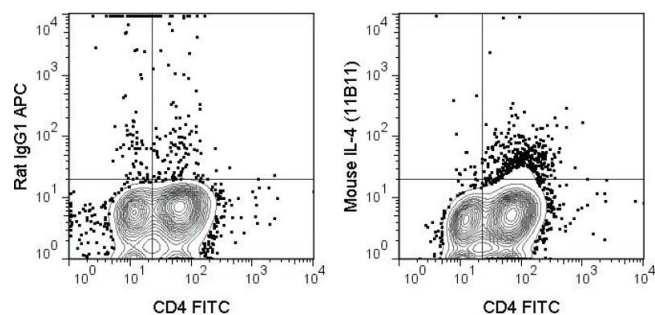
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: 2-8°C protected from light

Expiry Date: 12 months



### Flow Cytometry

**Image 1.** Mouse lymphoid cells were stimulated in the presence of a protein transport inhibitor. Cells were then fixed, permeabilized, stained with FITC Anti-Mouse CD4 (ABIN6961274) and intracellularly with 0.5 µg APC Anti-Mouse IL-4 (ABIN6961274) (right panel) or 0.5 µg APC Rat IgG1 (left panel).