Datasheet for ABIN7278037

anti-IL-12/IL-23 p40 antibody (APC)

1 Image

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Overview

Quantity:	100 µg
Target:	IL-12/IL-23 p40
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL-12/IL-23 p40 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Clone:	C17-8
Isotype:	IgG2a 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-12/IL-23 p40
Abstract:	IL-12/IL-23 p40 Products
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,

Target Details

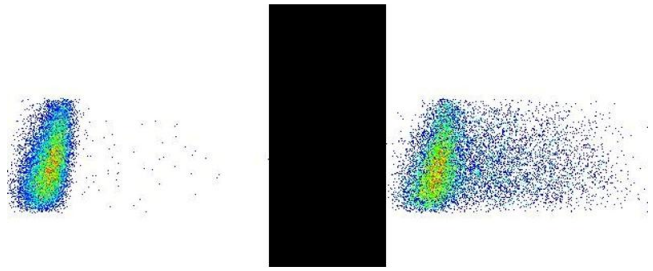
	resulting in a 70 kDa functional cytokine. IL-12 is secreted by activated monocytes, macrophages, and dendritic cells, and has been shown to target naive, resting CD4+ T cells to promote their proliferation and secretion of cytokines. IL-23 contains the p40 subunit in combination with a 19 kDa protein 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. Please choose the appropriate format for each application.
Gene ID:	16160
UniProt:	P43432

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). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.
Comment:	0.2 mg/mL
Restrictions:	For Research Use only

Handling

Buffer:	10 mM NaH2PO4, 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 macrophages were stimulated in the presence of a protein transport inhibitor. Cells were then fixed, permeabilized and stained intracellularly with 0.125 µg PE Anti-Mouse IL-12/IL-23 p40 (ABIN6961276) (left panel) or 0.125 µg PE Rat IgG2a (left panel).

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