Mouse IL-23 APC-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 320244

Catalog Number: IC18871A

100 Tests

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-23 in flow cytometry.
Source	Monoclonal Rat IgG_{2A} Clone # 320244
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse IL-23 p19 and recombinant mouse IL-12/IL-23 p40 Leu20-Ala196 (Il-23 p19) & Met23-Ser335 (IL-12/IL-23 p40) Accession # Q9EQ14 (Il-23 p19) & P43432 (IL-12/IL-23 p40)
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	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.

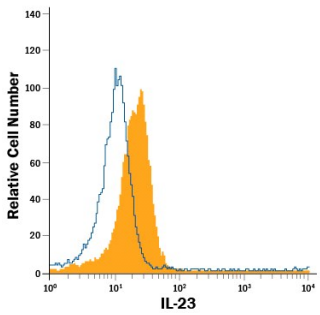
APPLICATIONS

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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of IL-23 in RAW 264.7 Mouse Cell Line by Flow Cytometry. RAW 264.7 mouse monocyte/macrophage cell line was stained with Rat Anti-Mouse IL-23 APC-conjugated Monoclonal Antibody (Catalog # IC18871A, filled histogram) or isotype control antibody (Catalog # IC006A, open histogram). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Interleukin-23 is a heterodimeric, secreted cytokine that belongs to the IL-12 family of molecules. Mouse IL-23 is composed of two disulfide-linked chains, p40, a 40-42 kDa, 313 amino acid (aa) glycosylated protein that also contributes to the formation of IL-12, and p19, a 19-21 kDa, 175 aa polypeptide that also contributes to the formation of IL-39. It has been found to be principally expressed by activated macrophages and dendritic cells, where it acts on naïve CD4+ T cells and promotes the development of T-helper 17 type cells. It is also reported to drive the formation of osteoblasts from mesenchymal stem cells. The receptor complex for IL-23 is composed of two chains, IL-23R and IL-12Rb1. Over the amino acid ranges cited for this product, mouse p19 shares 74% and 88% aa sequence identity with human and rat p19 respectively, while mouse p40 shares 66% and 93% aa sequence identity with human and rat p40, respectively.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956