

FcZero-rAb[®] Biotin Anti-Human IL-12/IL-23 p40 Rabbit Recombinant Antibody

Catalog Number: **Biotin-FcA98277**

Basic Information

Catalog Number:

Biotin-FcA98277

Concentration:

100ug, 500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0431

GenBank Accession Number:

BC067498

GeneID (NCBI):

3593

UNIPROT ID:

P29460

Full Name:

interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) -

Calculated MW:

328 aa, 37 kDa

Purification Method:

Protein A purification

CloneNo.:

241600F8

Recommended Dilutions:FC (Intra): 5 ul per 10⁶ cells in a 100 µl suspension**Excitation/Emission maxima wavelengths:**

Applications

Tested Applications:

FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

FC (Intra): IFN gamma, LPS and Brefeldin A treated human PBMCs,

Background Information

Interleukin (IL)-12 and IL-23 are heterodimeric cytokines that share a common p40 subunit (PMID: 11114383). IL-12 is composed of the IL-12 p40 subunit linked to the IL-12 p35 subunit, and the heterodimer signals through the IL-12 receptor (IL-12R), which comprises the IL-12R β 1 and IL-12R β 2 subunits. IL-23 is composed of the IL-23 p19 subunit and the IL-12 p40 (IL-12/23p40) subunit, which signals through IL-23R and IL-12R β 1 (PMID: 11114383; 26121196). IL-12/IL-23 p40 also exists as a monomer and as a homodimer which can act as a potent IL-12 antagonist (PMID: 8958912; 18783467). IL-12/IL-23 p40 is produced by antigen-presenting cells, such as dendritic cells (DCs), monocytes, macrophages, neutrophils and, to a lesser extent, B cells (PMID: 20476918).

Storage

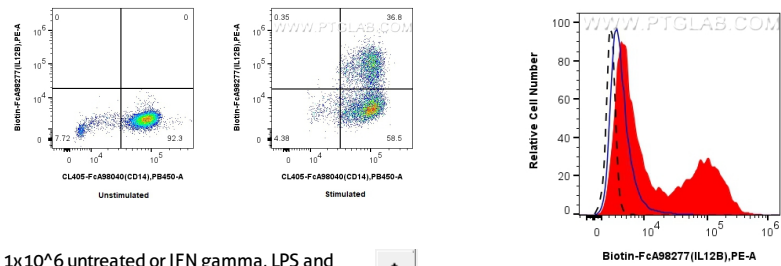
Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

Selected Validation Data



1x10⁶ untreated or IFN gamma, LPS and Brefeldin A treated human PBMCs were intracellularly stained with 0.25 ug Biotin Anti-Human IL-12/IL-23 p40 Rabbit RecAb (Biotin-FcA98277, Clone: 241600F8) and Streptavidin-PE Conjugate (PE-PF00030). Cells were co-stained with CoraLite® Plus 405 Anti-Human CD14 Rabbit RecAb (CL405-FcA98040, Clone: 230332D7). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer.

1x10⁶ IFN gamma, LPS and Brefeldin A treated human PBMCs were intracellularly stained with 0.25 ug Biotin Anti-Human IL-12/IL-23 p40 Rabbit RecAb (Biotin-FcA98277, Clone: 241600F8) (red) or FcZero-rAb™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue). 1x10⁶ untreated human PBMCs were intracellularly stained with 0.25 ug Biotin Anti-Human IL-12/IL-23 p40 Rabbit RecAb (Biotin-FcA98277, Clone: 241600F8) (black,