

For Research Use Only

# Anti-Human IL-12/IL-23 p40 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98277-1-PBS



## Basic Information

### Catalog Number:

98277-1-PBS

### Concentration:

1mg, 2 mg/ml

### Source:

Rabbit

### Isotype:

IgG

### 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

## Applications

### Tested Applications:

FC (Intra)

### Species Specificity:

human

## 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  $\beta$  1 and IL-12R  $\beta$  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  $\beta$  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 -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

### Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

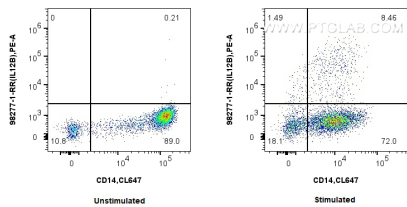
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

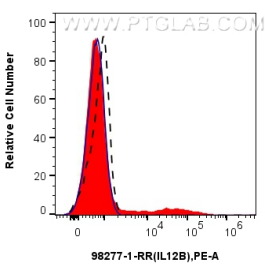
W: [ptgcn.com](http://ptgcn.com)

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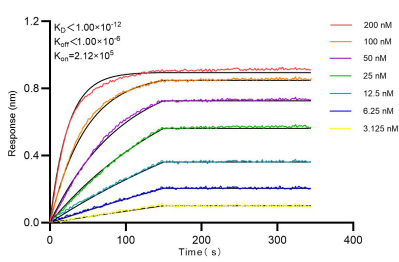
Selected Validation Data



1x10<sup>6</sup> untreated or IFN gamma, LPS and Brefeldin A treated human PBMCs were intracellularly stained with 0.25 ug Anti-Human IL-12/IL-23 p40 Rabbit Recombinant Antibody (98277-1-RR, Clone: 241600F8) and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD14 Rabbit Recombinant Antibody (CL647-98040, Clone: 230332D7). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm



1x10<sup>6</sup> IFN gamma, LPS and Brefeldin A treated human PBMCs were intracellularly stained with 0.25 ug Anti-Human IL12B Rabbit Recombinant Antibody (98277-1-RR, Clone: 241600F8) (red) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). 1x10<sup>6</sup> untreated human PBMCs were stained with 0.25 ug Anti-Human IL-12/IL-23 p40 Rabbit Recombinant Antibody (98277-1-RR, Clone: 241600F8)



Biolayer interferometry (BLI) kinetic assays of 98277-1-RR against Human IL-12/IL-23 p40 were performed. The affinity constant is below 1 pM.