

For Research Use Only

# IL-12/IL-23 p40 Polyclonal antibody

Catalog Number: 17645-1-AP

4 Publications



## Basic Information

### Catalog Number:

17645-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 293 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11837

### 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

### Observed MW:

39 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, FC (Intra), ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : Recombinant protein,

FC (Intra) : Jurkat cells,

## Background Information

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-12Rβ1 and IL-12Rβ2 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-12Rβ1 (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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinlong Zang	33338567	Int J Pharm	IF
Man Li	39713206	Exploration (Beijing)	WB,IF
Dwight D Harris	37940431	Surgery	

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

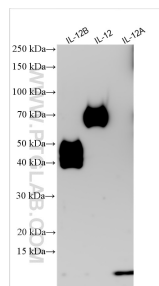
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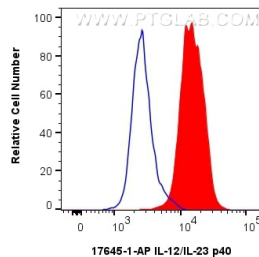
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## Selected Validation Data



Recombinant protein IL-12B (Eg0431), IL-12 (Eg0575), IL-12A (Ag17625) were subjected to SDS PAGE followed by western blot with 17645-1-AP (IL-12B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



$1 \times 10^6$  Jurkat cells were intracellularly stained with 0.4  $\mu$ g IL-12/IL-23 p40 Polyclonal antibody (17645-1-AP) and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).