

For Research Use Only

IL-12/IL-23 p40 Polyclonal antibody

Catalog Number: 30956-1-AP



Basic Information

Catalog Number:

30956-1-AP

Size:

150ul , Concentration: 400 ug/ml by Nanodrop;

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

Observed MW:

40-45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:4000

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : Recombinant protein, HepG2 cells, Jurkat cells

FC (Intra) : Jurkat cells, MOLT-4 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).

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

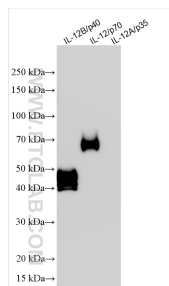
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

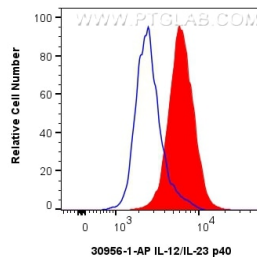
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Selected Validation Data



Human IL-12B/p40, IL-12/p70, IL-12A/p35 recombinant protein, were subjected to SDS PAGE followed by western blot with 30956-1-AP (IL-12B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



1x10⁶ Jurkat cells were intracellularly stained with 0.4 ug IL-12/IL-23 p40 Polyclonal antibody (30956-1-AP) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).