

For Research Use Only

# Anti-Mouse IL-12/IL-23 p40 Rabbit Recombinant Antibody

Catalog Number: 98004-1-RR



## Basic Information

Catalog Number:

98004-1-RR

Size:

100ug , 1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

GeneID (NCBI):

UNIPROT ID:

P43432

Full Name:

Calculated MW:

70 kDa

Purification Method:

Protein A purification

CloneNo.:

230037C9

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

mouse

## 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-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 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

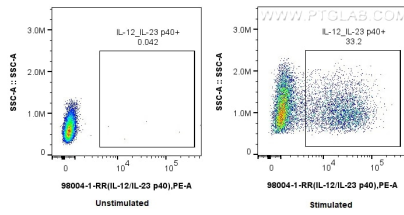
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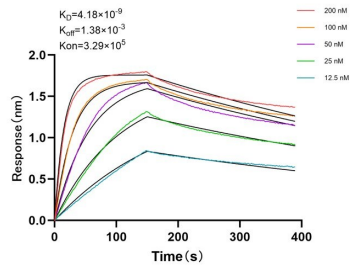
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## Selected Validation Data



1X10<sup>6</sup> unstimulated or IFN $\gamma$  and LPS treated (in the presence of protein transport inhibitors) RAW 264.7 cells were intracellularly stained with 0.125  $\mu$ g Anti-Mouse IL-12/IL-23 p40 (98004-1-RR, Clone: 230037C9) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:700. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 98004-1-RR against Mouse IL-12/23 p40 were performed. The affinity constant is 4.18 nM.