

# IL-12/IL-23 p40 Recombinant antibody, PBS Only

Catalog Number: 83008-7-PBS

## Basic Information

**Catalog Number:**

83008-7-PBS

**Size:**

1 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.:**

241600B3

## Applications

**Tested Applications:**

IF/ICC, Indirect ELISA

**Species Specificity:**

human

## 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:**

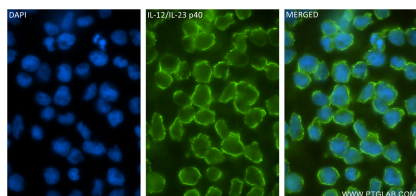
Store at -80°C.

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

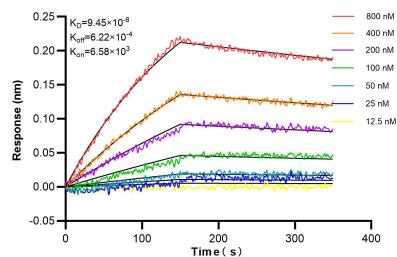
**Storage Buffer:**

PBS Only

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MOLT-4 cells using IL12B antibody (83008-7-RR, Clone: 241600B3 ) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83008-7-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83008-7-RR against Human IL-12/IL-23 p40 were performed. The affinity constant is 94.5 nM.