For Research Use Only

IL-12/IL-23 p40 Polyclonal antibody

Catalog Number:17645-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
17645-1-AP

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:
45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
FC (Intra): 0.40 ug per 10^6 cells in a 100 ul suspension

Applications

Tested Applications:
WB, FC (Intra), ELISA

Cited Applications:
WB, IF

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

WB : Recombinant protein, HeLa cells

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-12Rβ 1 and IL-12Rβ 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-12Rβ 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Xinlong Zang	33338567	Int J Pharm	IF
Lizhi Hu	42559407	Theranostics	
Anli Xu	40523449	J Ethnopharmacol	WB,IF

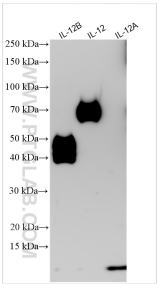
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Aliquoting is unnecessary for -20°C storage

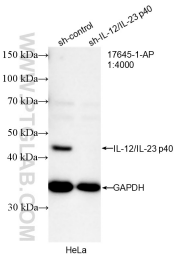
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

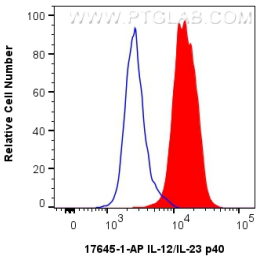
Selected Validation Data



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



WB result of IL-12/IL-23 p40 antibody (17645-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IL-12/IL-23 p40 transfected HeLa cells.



1x10^6 Jurkat cells were intracellularly stained with 0.4 ug 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 ug rabbit IgG isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.