

For Research Use Only

Anti-Rat IL-12/IL-23 p40 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98623-2-PBS



Basic Information

Catalog Number: 98623-2-PBS	GenBank Accession Number: XM_006246147.3	Purification Method: Protein A purification
Size: 1mg, 3 mg/ml	GeneID (NCBI): 64546	CloneNo.: 250781C7
Source: Rabbit	UNIPROT ID: E9PU71	
Isotype: IgG	Full Name: interleukin 12b	
Immunogen Catalog Number: EG3818	Calculated MW: 38 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
rat

Background Information

Interleukin (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 β 1 and IL-12R β 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 β 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.

Storage Buffer:
PBS only, pH7.3

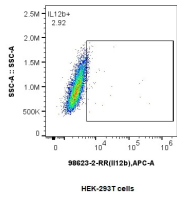
For technical support and original validation data for this product please contact:

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

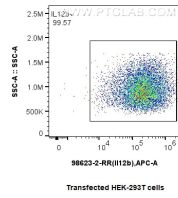
E: proteintech@ptglab.com
W: ptglab.com

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

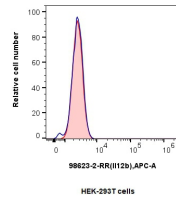
Selected Validation Data



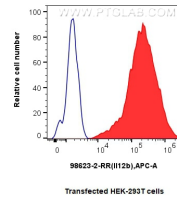
HEK-293T cells



Transfected HEK-293T cells



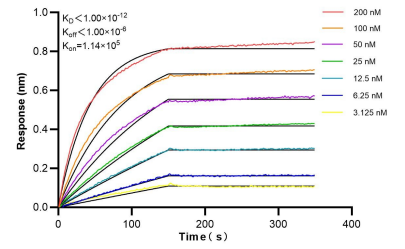
HEK-293T cells



Transfected HEK-293T cells

1x10⁶ HEK-293T cells or IL-12/IL-23 p40 transfected HEK-293T cells were intracellularly stained with 0.25 ug Anti-Rat IL-12/IL-23 p40 Rabbit RecAb (98623-2-RR, Clone: 250781C7) and APC-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 98623-2-PBS in a different storage buffer formulation.

1x10⁶ HEK-293T cells or IL-12/IL-23 p40 transfected HEK-293T cells were intracellularly stained with 0.25 ug Anti-Rat IL-12/IL-23 p40 Rabbit RecAb (98623-2-RR, Clone: 250781C7) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and APC-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same



Biolayer interferometry (BLI) kinetic assays of 98623-2-RR against Rat IL-12/IL-23 p40 were performed. The affinity constant is below 1 pM.