For Research Use Only

Anti-Rat IL-2 Rabbit Recombinant Antibody

Catalog Number:98046-1-RR

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Basic Information

Catalog Number:
98046-1-RR

Size:
100ug , 1 mg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG0260

GenBank Accession Number:
NM_053836

GeneID (NCBI):
116562

UNIPROT ID:
P17108

Full Name:
interleukin 2

Calculated MW:
18 kDa

Purification Method:
Protein A purification

CloneNo.:
240264C7

Recommended Dilutions:
FC (Intra): 0.25 ug per 10^6 cells in 100 ul suspension

Applications

Tested Applications:
FC (Intra)

Species Specificity:
rat

Positive Controls:

FC (Intra) : PMA, Ionomycin and Brefeldin A treated rat splenocytes,

Background Information

Interleukin-2 (IL-2) is a four-helix bundle, type I cytokine that functions as a growth factor for a wide range of leukocytes. In the immune system, IL-2 is essential for immune homeostasis, normal T regulatory cell function, and self-tolerance. It regulates immune cell homeostasis and has been used to treat a range of disorders including cancer and autoimmune disease. IL-2 signals through heterodimerization of the IL-2Rβ and IL-2Rγ receptor subunits (PMID: 25992858, 24907378, 15034008, 17981641).

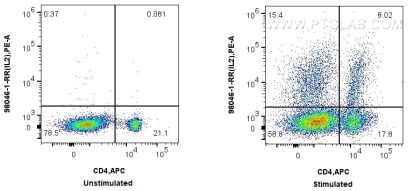
Storage

Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

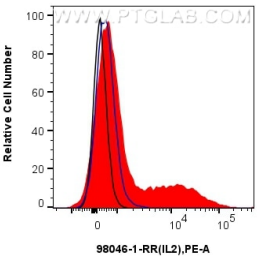
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

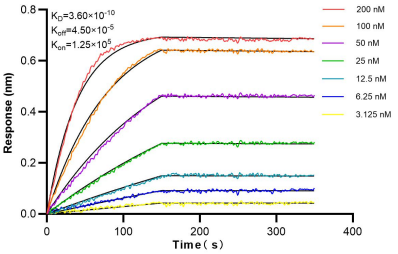
Selected Validation Data



1x10^6 unstimulated or PMA, Ionomycin and Brefeldin A treated rat splenocytes were intracellularly stained with APC Anti-Rat CD4 (OX-35) and 0.25 ug Anti-Rat IL-2 Rabbit Recombinant Antibody (98046-1-RR, Clone: 240264C7) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



1x10^6 PMA, Ionomycin and Brefeldin A treated rat splenocytes were intracellularly stained with 0.25 ug Anti-Rat IL-2 Rabbit Recombinant Antibody (98046-1-RR, Clone: 240264C7) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Biolayer interferometry (BLI) kinetic assays of 98046-1-RR against Rat IL2 were performed. The affinity constant is 0.36 nM.