

For Research Use Only



# Anti-Mouse IL-21 Rabbit Recombinant Antibody

Catalog Number: 98015-1-RR

## Basic Information

Catalog Number:

98015-1-RR

Size:

100ug, 1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_001291041

GeneID (NCBI):

60505

UNIPROT ID:

Q9ES17

Full Name:

interleukin 21

Calculated MW:

17 aa

Purification Method:

Protein A purification

CloneNo.:

230267G7

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

Mouse

## Background Information

Interleukin 21 (IL-21) is a cytokine produced predominantly by cluster of differentiation 4 (CD4+) T-cells and natural killer T-cells. IL-21 is preliminarily expressed in activated cluster of differentiation 4 (CD4+) T-cells and natural killer (NK) T-cells. IL-21 receptor (IL-21R) is a class I cytokine receptor, which requires dimerization with the indispensable common gamma chain ( $\gamma c$ ) subunit to bind IL-21. IL-21 plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. IL-21 mediates apoptosis in B-CLL cells through up-regulation of the BIM (BH3 family member) and enhances both direct and antibody-dependent cellular cytotoxicity in these cells.

## Storage

Storage:

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

Storage Buffer:

PBS with 0.09% sodium azide.

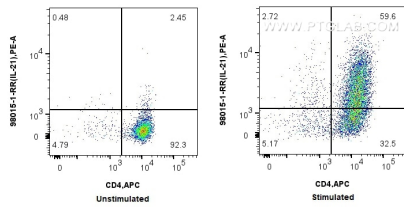
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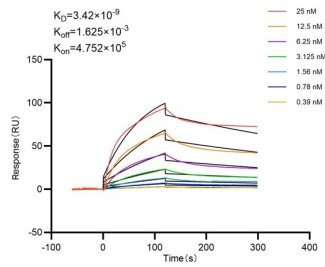
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



1x10<sup>6</sup> untreated or PMA, Ionomycin, and Brefeldin A treated C57BL/6 Th17-polarized splenocytes were intracellularly stained with APC Anti-Mouse CD4 (GK1.5) and 0.25 ug Anti-Mouse IL-21 Rabbit Recombinant Antibody (98015-1-RR, Clone: 230267G7) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Surface Plasmon Resonance (SPR) kinetic assays of 98015-1-RR against Mouse IL-21 were performed. The affinity constant is 3.42 nM.