

For Research Use Only

# Anti-Human IL-5 Rabbit Recombinant Antibody

Catalog Number: 98178-1-RR



## Basic Information

<b>Catalog Number:</b> 98178-1-RR	<b>GenBank Accession Number:</b> BC066282	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 1000 µg/ml	<b>GeneID (NCBI):</b> 3567	<b>CloneNo.:</b> 240915D12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P05113	
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 5 (colony-stimulating factor, eosinophil)	
	<b>Calculated MW:</b> 134 aa, 15 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
human

## Background Information

IL-5 is a 4- $\alpha$ -helix, pleiotropic cytokine that regulates the activities of B cells, eosinophils, and basophils. It is produced mostly by CD4+ T cells, eosinophils, and basophils, and signals through its specific receptor (IL-5R) on target cells to activate downstream JAK/STAT, Btk, and Ras/ERK pathways. Due to its pleiotropic effects, IL-5 plays a role in both innate and adaptive immune responses. It is a strong promoter of eosinophil differentiation, migration, maturation, and survival. Additionally, IL-5 is also capable of stimulating activated B cells to differentiate into antibody-secreting cells. Elevated IL-5 levels are strongly correlated with eosinophilia, which is a hallmark feature of allergy, asthma, and hypersensitivity. (PMID: 21986312, 22174445, 19819937, 16895557)

## Storage

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

**Storage Buffer:**  
PBS with 0.09% sodium azide, pH 7.3.

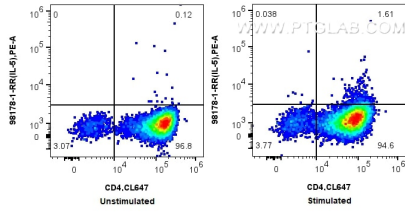
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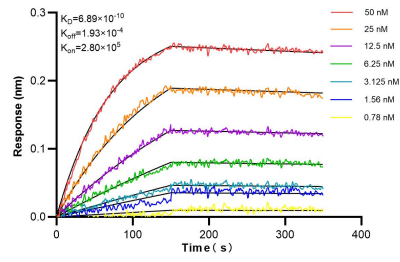
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## Selected Validation Data



1x10<sup>6</sup> untreated or PMA, Ionomycin and Brefeldin A treated human PBMCs were intracellularly stained with 0.25 ug Anti-Human IL-5 Rabbit Recombinant Antibody (98178-1-RR, Clone: 240915D12) and PE-conjugated Goat Anti-Rabbit IgG. Cells were then stained with CoraLite® Plus 647 Anti-Human CD4. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 98178-1-RR against Human IL-5 were performed. The affinity constant is 0.689 nM.