

For Research Use Only

# Anti-Human IL-5 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98178-1-PBS



## Basic Information

Catalog Number:

98178-1-PBS

Size:

1mg, 2 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC066282

GeneID (NCBI):

3567

UNIPROT ID:

P05113

Full Name:

interleukin 5 (colony-stimulating factor, eosinophil)

Calculated MW:

134 aa, 15 kDa

Purification Method:

Protein A purification

CloneNo.:

240915D12

## 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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

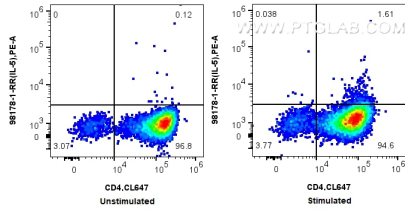
T: 4006900926

E: Proteintech-CN@ptglab.com

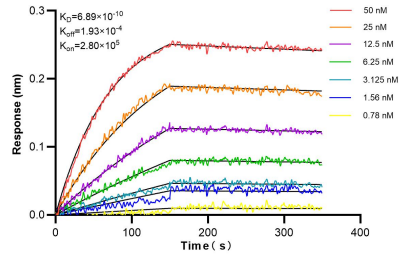
W: ptgcn.com

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

## Selected Validation Data



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). This data was developed using the same antibody clone with 98178-1-



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