

For Research Use Only

Anti-Human IL-5 Rabbit Recombinant Antibody

Catalog Number: 98178-1-RR



Basic Information

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

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human

Background Information

IL-5 is a 4- α -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.

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

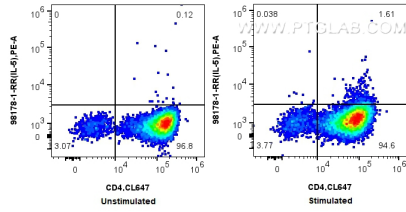
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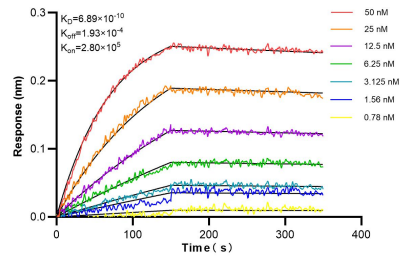
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Selected Validation Data



1x10⁶ 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.