

For Research Use Only

# IL3RA/CD123 Recombinant antibody, PBS Only

Catalog Number: 83243-2-PBS



## Basic Information

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|---|---|---|
| <b>Catalog Number:</b><br>83243-2-PBS                       | <b>GenBank Accession Number:</b><br>BC035407                      | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ug , Concentration: 1 mg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>3563                                     | <b>CloneNo.:</b><br>240042F5                          |
| <b>Source:</b><br>Rabbit                                    | <b>ENSEMBL Gene ID:</b><br>ENSG00000185291                        |   |
| <b>Isotype:</b><br>IgG                                      | <b>UNIPROT ID:</b><br>P26951                                      |   |
| <b>Immunogen Catalog Number:</b><br>AG4452                  | <b>Full Name:</b><br>interleukin 3 receptor, alpha (low affinity) |   |
|   | <b>Calculated MW:</b><br>378 aa, 43 kDa                           |   |

## Applications

**Tested Applications:**  
ELISA

**Species Specificity:**  
human

## Background Information

Interleukin-3 receptor subunit alpha (IL3RA), also known as CD123, belongs to the cytokine receptor family. It is a glycoprotein containing an extracellular domain, involving a predicted Ig-like domain, two FnIII domains, a transmembrane domain and an intracellular domain (PMID: 24513123). IL3RA is expressed on hematopoietic progenitor cells, plasmacytoid dendritic cells, basophils, monocytes, some B cells, and in a variety of hematologic malignancies (PMID: 10527461; 34855461). IL-3 initially binds to IL3RA and subsequently recruits the beta chain (CD131) to form the high-affinity receptor, resulting in the activation of a series of signaling pathways including the JAK/STAT, Ras-MAPK, and phosphatidylinositol 3-kinase pathways (PMID: 29296749). IL-3R signaling regulates the proliferation, survival, and differentiation of hematopoietic cells.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

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)  
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