

### Synonym

IL3R,IL3RA,IL-3Ra,IL-3R-alpha,IL3RAY,IL3RX,IL3RY,CD123 antigen,CD123,hIL3Ra,hIL-3Ra,MGC34174,IL-3 R alpha

### Source

APC-Labeled Human IL-3 R alpha Protein, His Tag (ILA-HA2H8) is produced via conjugation of APC to Human IL-3 R alpha Protein, His Tag with a new generation site-specific technology under optimal conditions with a proprietary technology. Human IL-3 R alpha Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Thr 19 - Arg 305 (Accession # [P26951-1](#)). Predicted N-terminus: Thr 19

### Molecular Characterization

IL-3 R alpha(Thr 19 - Arg 305) P26951-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 36.7 kDa.

### Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

### Application

Please note that this product is NOT compatible to streptavidin detection system.

### Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, 0.5% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

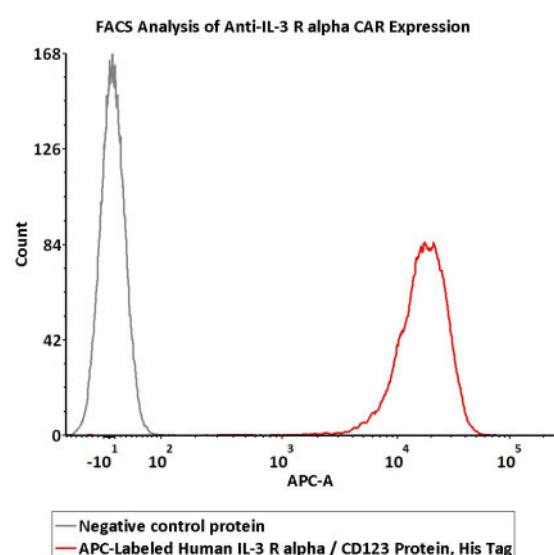
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

### Bioactivity-FACS



$5 \times 10^5$  of anti-IL-3 R alpha CAR-293 cells were stained with 100  $\mu$ L of 1:25 dilution (4  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of APC-Labeled Human IL-3 R alpha Protein, His Tag (Cat. No. ILA-HA2H8) and negative control protein respectively. APC signal was used to evaluate the binding activity (QC tested).

## Background

Interleukin 3 receptor alpha (low affinity) (IL3RA), also known as CD123 (Cluster of Differentiation 123) is a 70-kD glycoprotein member of the hematopoietin receptor superfamily. This protein associates with a beta subunit common to the receptors for IL-5 and granulocyte-macrophage colony-stimulating factor (GM-CSF) to form a high-affinity receptor for IL-3. The interleukin-3 receptor  $\alpha$  chain (CD123) has been identified as a potential immunotherapeutic target because it is overexpressed in AML compared with normal hematopoietic stem cells.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.