



Synonym

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

Source

PE-Labeled Human IL-3 R alpha, His Tag (ILA-HP2H8) is produced via site-specific conjugation of PE to Human IL-3 R alpha, His Tag under optimal conditions with a proprietary technology. Human IL-3 R alpha, 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 |
|--|----------|

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 36.7 kDa.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Application

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

Formulation

Lyophilized from 0.22 μ 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

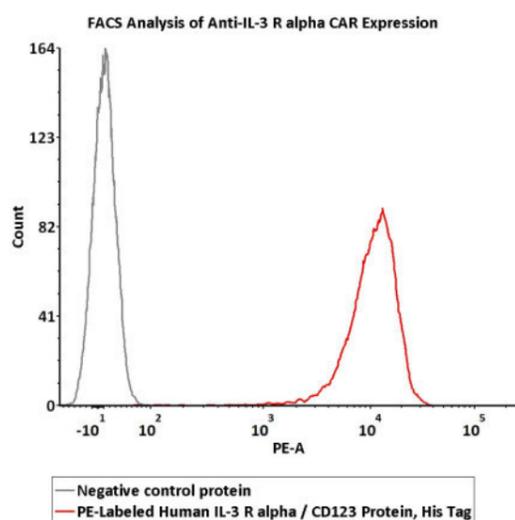
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Bioactivity-FACS



5e5 of anti-IL-3 R alpha CAR-293 cells were stained with 100 μ L of 1:25 dilution (4 μ L stock solution in 100 μ L FACS buffer) of PE-Labeled Human IL-3 R alpha, His Tag (Cat. No. ILA-HP2H8) and negative control protein respectively. PE signal was used to evaluate the binding activity (QC tested).

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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 α 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 if you have any question on this product.

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