

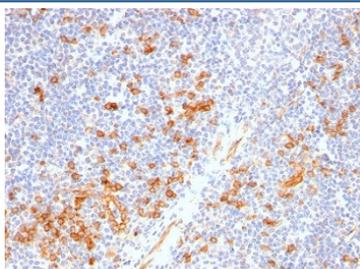
Recombinant CD123 Antibody / IL3RA [clone IL3RA/2947R] (V7426)

Catalog No.	Formulation	Size
V7426-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7426-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7426SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7426IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

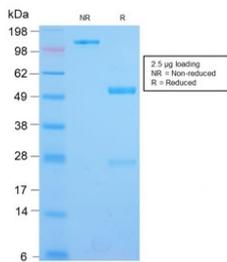
Recombinant **RABBIT MONOCLONAL**

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	IL3RA/2947R
Purity	Protein A affinity chromatography
UniProt	P26951
Localization	Cell surface, Cytoplasmic
Applications	ELISA (order BSA/sodium Azide-free Format For Coating) : Immunohistochemistry (FFPE) : 0.25-0.5ug/ml for 30 min at RT
Limitations	This recombinant CD123 antibody is available for research use only.



IHC staining of FFPE human tonsil with recombinant CD123 antibody (clone IL3RA/2947R). HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9 for 10-20 min and allow to cool.



SDS-PAGE analysis of purified, BSA-free recombinant CD123 antibody (clone IL3RA/2947R) as confirmation of integrity and purity.

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD123 antibody (clone IL3RA/2947R). These results demonstrate the foremost specificity of the IL3RA/2947R mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Recombinant CD123 antibody detects the interleukin-3 receptor alpha chain, encoded by the IL3RA gene. CD123 is a type I membrane glycoprotein that partners with the common beta subunit to form the complete IL-3 receptor complex. It is expressed on hematopoietic progenitors, plasmacytoid dendritic cells, and leukemic blasts, making it an important marker in immunology and oncology. Because of its roles in cell survival, differentiation, and leukemia progression, Recombinant CD123 antibody is widely used in research and translational studies.

CD123 signaling is initiated upon IL-3 binding, which activates JAK2 and downstream pathways such as STAT5, PI3K, and MAPK. These cascades drive proliferation, prevent apoptosis, and regulate lineage commitment. In normal physiology, this ensures balanced hematopoiesis, while in malignancy, dysregulated expression leads to excessive growth of myeloid precursors.

The Recombinant CD123 antibody clone IL3RA/2947R delivers reliable and specific detection of this receptor. Recombinant production ensures reproducibility, critical for longitudinal studies and clinical validation. Clone IL3RA/2947R has been documented in peer-reviewed research on acute myeloid leukemia, plasmacytoid dendritic cell biology, and targeted immunotherapy. Its consistency makes it valuable for flow cytometry, immunohistochemistry, and receptor quantification assays.

Research using clone IL3RA/2947R has clarified how CD123 overexpression identifies malignant blasts and provides a basis for targeted therapies, including antibody-drug conjugates and CAR T cells. In immunology, CD123 detection supports identification of plasmacytoid dendritic cells, key producers of type I interferons during viral infection. These diverse applications make CD123 detection critical in both health and disease contexts.

NSJ Bioreagents provides this Recombinant CD123 antibody to support research in leukemia, dendritic cell biology, and therapeutic development. Alternate names include IL3RA antibody, interleukin-3 receptor alpha chain antibody, IL-3 receptor subunit alpha antibody, plasmacytoid dendritic cell marker antibody, and hematopoietic growth factor receptor antibody.

Application Notes

Optimal dilution of the recombinant CD123 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if

required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A portion of amino acids 26-171 was used as the immunogen for the recombinant CD123 antibody.

Storage

Store the recombinant CD123 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).