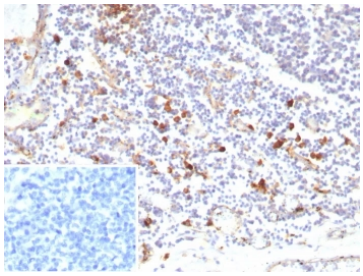
IL3RA Antibody rIL3RA/9212 / Interleukin 3 Receptor alpha Monoclonal Antibody [clone rIL3RA/9212] (V5529)

Catalog No.	Formulation	Size
V5529-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5529-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5529SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

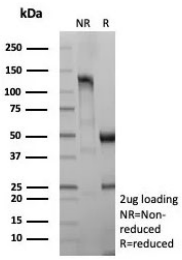
Recombinant | MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2b, kappa
Clone Name	rIL3RA/9212
Purity	Protein A/G affinity
UniProt	P26951
Localization	Cytoplasm, Cell membrane
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This IL3RA Antibody rIL3RA/9212 is available for research use only.



IL3RA Antibody rIL3RA/9212 Immunohistochemistry. IHC staining of FFPE human tonsil tissue with recombinant IL3RA antibody (clone rIL3RA/9212). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant IL3RA antibody (clone rIL3RA/9212) as confirmation of integrity and purity.

Description

IL3RA antibody targets Interleukin 3 receptor alpha, a type I transmembrane glycoprotein encoded by the IL3RA gene. Interleukin 3 receptor alpha is also commonly referred to as CD123 and represents the ligand-binding subunit of the interleukin-3 receptor complex. This receptor complex is formed through association with the shared beta chain, which is required for downstream signal transduction following cytokine engagement. IL3RA is predominantly localized to the cell surface, consistent with its role in mediating extracellular cytokine-dependent signaling events.

Interleukin 3 receptor alpha plays an essential role in hematopoietic regulation by supporting the survival, proliferation, and differentiation of progenitor and mature immune cells. CD123 antibody detection is widely used in studies examining myeloid lineage commitment, cytokine responsiveness, and immune cell homeostasis. IL3RA expression is most prominent on hematopoietic stem and progenitor cells, monocytes, basophils, plasmacytoid dendritic cells, and select lymphoid populations, making it a valuable marker for immune profiling and cellular phenotyping across multiple experimental systems.

Dysregulation of IL3RA expression has been reported in a range of hematologic malignancies, including acute myeloid leukemia, blastic plasmacytoid dendritic cell neoplasm, and other myeloproliferative disorders, where elevated CD123 expression is frequently observed on malignant blast populations. As a result, Interleukin 3 receptor alpha antibody reagents are commonly applied in research investigating disease-associated alterations in cytokine receptor signaling, leukemic cell biology, and immune cell differentiation pathways.

At the molecular level, IL3RA-mediated signaling contributes to activation of intracellular pathways involved in cell survival, proliferation, and differentiation, including signaling casc downstream of cytokine receptor engagement. These signaling events reinforce the importance of Interleukin 3 receptor alpha in maintaining normal immune system function and hematopoietic balance. This IL3RA antibody is designed to recognize Interleukin 3 receptor alpha, also known as CD123, in research applications and supports experimental studies focused on immune signaling mechanisms, hematopoiesis, and cytokine receptor expression dynamics.

For a mouse monoclonal clone with broader IHC validation and exceptionally strong protein microarray target separation, see our CD123 Antibody IL3RA/1531 / IL3RA Monoclonal Antibody page.

Application Notes

Optimal dilution of the IL3RA Antibody rIL3RA/9212 / Interleukin 3 Receptor alpha Monoclonal Antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human IL3RA protein (within amino acids 26-171) was used as the immunogen for the IL3RA Antibody rIL3RA/9212.

Storage

Aliquot the IL3RA Antibody rIL3RA/9212 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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