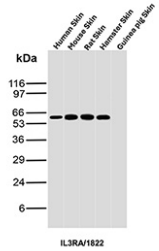
Interleukin-3 Receptor Alpha Antibody IL3RA/1822 / Interleukin-3 Receptor Alpha Chain Antibody [clone IL3RA/1822] (V5922)

Catalog No.	Formulation	Size
V5922-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5922-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5922SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Hamster, Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	IL3RA/1822
UniProt	P26951
Localization	Membrane
Applications	Western Blot: 2-4ug/ml
Limitations	This Interleukin-3 Receptor Alpha Antibody IL3RA/1822 / Interleukin-3 Receptor Alpha Chain Antibody is available for research use only.



Interleukin-3 Receptor Alpha Antibody IL3RA/1822 Detects CD123 Across Multiple Species WB. Western blot analysis of tissue lysates using Interleukin-3 Receptor Alpha Antibody clone IL3RA/1822 demonstrates a prominent band at approximately 60-65 kDa in human placenta (lane 1), mouse kidney (lane 2), rat kidney (lane 3), hamster kidney (lane 4), and guinea pig skin (lane 5). The observed migration above the predicted approximately 43 kDa molecular weight is consistent with the extensive N-linked glycosylation of mature CD123. The comparable signal across all five samples demonstrates cross-species detection of IL3RA by this Interleukin-3 Receptor Alpha Chain Antibody under Western blot conditions.

Description

Interleukin-3 Receptor Alpha Antibody IL3RA/1822 recognizes IL3RA, a type I transmembrane glycoprotein also known as CD123. Encoded by the IL3RA gene, this protein forms the ligand-binding alpha subunit of the interleukin 3 receptor

and contributes to regulation of hematopoietic cell survival, proliferation, and differentiation. CD123 expression among hematopoietic progenitors and multiple immune-cell populations reflects the importance of IL-3 responsiveness in blood-cell development and immune regulation.

IL3RA binds IL-3 with relatively low affinity when expressed independently. Association with the common beta subunit CSF2RB (CD131) produces the functional high-affinity IL-3 receptor complex. CSF2RB is also shared by receptor systems for GM-CSF and IL-5. Formation of the functional receptor enables activation of intracellular pathways including JAK-STAT, PI3K-AKT, and MAPKs, connecting cytokine recognition with changes in cellular survival, proliferation, and differentiation.

Interleukin 3 receptor alpha expression is associated with hematopoietic progenitor cells and several myeloid and immune-cell populations. The Interleukin-3 Receptor Alpha Chain Antibody target CD123 is also studied extensively in hematologic malignancies, particularly myeloid neoplasms in which altered or elevated receptor expression can occur. Its cell-surface localization and role in cytokine responsiveness make IL3RA relevant to research examining normal hematopoiesis, immune-cell development, and malignant hematopoietic populations.

Clone IL3RA/1822 is a mouse monoclonal antibody generated against a recombinant fragment corresponding to approximately amino acids 26-171 of human IL3RA. As an Interleukin-3 Receptor Alpha Chain Antibody, clone IL3RA/1822 provides a defined monoclonal reagent for investigating CD123 and its relationship to hematopoietic and immune-cell biology. NSJ Bioreagents supplies IL3RA/1822 for research use only.

An Interleukin-3 Receptor Alpha Antibody can be used to investigate IL3RA expression and molecular mechanisms connecting IL-3 receptor signaling, hematopoietic development, immune regulation, and hematologic disease.

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 Interleukin-3 Receptor Alpha Antibody IL3RA/1822 / Interleukin-3 Receptor Alpha Chain Antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human IL3RA protein (around amino acids 26-171) (exact sequence is proprietary) was used as the immunogen for the Interleukin-3 Receptor Alpha Antibody IL3RA/1822.

Storage

Interleukin-3 Receptor Alpha Antibody IL3RA/1822 with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

Alternate Names

CD123 antibody, IL3RA antibody, IL-3RA antibody, IL3R alpha antibody, IL-3R alpha antibody, interleukin 3 receptor alpha antibody, interleukin-3 receptor alpha antibody, interleukin 3 receptor alpha chain antibody, interleukin-3 receptor alpha chain antibody

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