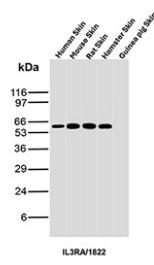


## Interleukin-3 receptor alpha chain Antibody / Interleukin 3 receptor alpha [clone IL3RA/1822] (V5922)

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 chain antibody is available for research use only.



Western blot analysis of Interleukin-3 receptor alpha chain / IL3RA antibody (clone IL3RA/1822) in skin tissue lysates. Samples include human skin, mouse skin, rat skin, hamster skin, and guinea pig skin lysates. A major band is detected at an apparent molecular weight of ~60 kDa, consistent with glycosylated IL3RA, while the predicted molecular weight of the unglycosylated polypeptide is ~43 kDa.

### Description

Interleukin-3 receptor alpha chain antibody targets Interleukin 3 receptor alpha, a type I transmembrane cytokine receptor subunit that serves as the ligand-binding component of the interleukin-3 receptor complex. Interleukin-3 receptor alpha chain is primarily localized to the cell surface and associates with the shared beta chain to enable intracellular signaling following cytokine engagement. This receptor system plays an important role in regulating hematopoietic cell survival,

proliferation, and differentiation during immune development and homeostasis.

Interleukin 3 receptor alpha chain expression is dynamically regulated across hematopoietic lineages and developmental stages. The receptor is expressed on hematopoietic stem and progenitor cells, monocytes, basophils, plasmacytoid dendritic cells, and select immune cell populations, reflecting its involvement in early immune cell specification and functional maturation. Because of this expression pattern, antibody-based detection of Interleukin 3 receptor alpha chain is widely used in research examining cytokine responsiveness, lineage commitment, and immune cell differentiation within the hematopoietic system.

Signaling through Interleukin 3 receptor alpha influences multiple intracellular pathways associated with cell survival and proliferative capacity following cytokine stimulation. These signaling events contribute to immune cell expansion and maintenance under both physiological and disease-associated conditions. Altered expression of Interleukin 3 receptor alpha chain has been reported in hematologic disorders, including myeloid neoplasms, where increased receptor expression is frequently observed on malignant cell populations. As a result, Interleukin-3 receptor alpha chain antibody reagents are commonly applied in studies investigating dysregulated cytokine signaling and immune cell abnormalities in disease models.

Beyond disease-focused research, Interleukin 3 receptor alpha chain remains relevant to broader investigations of immune activation, inflammatory signaling, and cytokine-driven cellular responses. Because receptor expression reflects cytokine sensitivity rather than antigen specificity, antibody-based detection provides insight into immune signaling potential across diverse experimental contexts. Clone IL3RA/1822 is designed to recognize Interleukin 3 receptor alpha chain and supports research applications focused on immune regulation, hematopoiesis, and cytokine receptor biology. NSJ Bioreagents offers this antibody for research use.

## Application Notes

Optimal dilution of the 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 chain antibody.

## Storage

Interleukin-3 receptor alpha chain antibody with sodium azide - store at 2 to 8°C; antibody without sodium azide - store at -20 to -80°C.