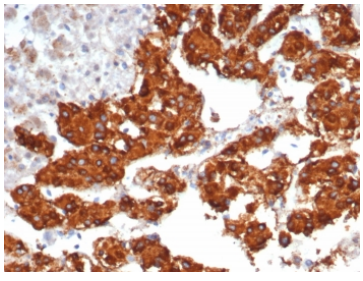
Interleukin 31 Antibody IL31/7333 / IL-31 Monoclonal Antibody [clone IL31/7333] (V4318)

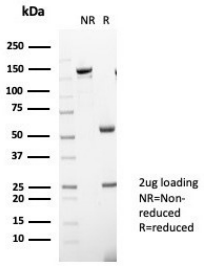
Catalog No.	Formulation	Size
V4318-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4318-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4318SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	IL31/7333
Purity	Protein A/G affinity
UniProt	Q6EBC2
Localization	Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This Interleukin 31 Antibody IL31/7333 / IL-31 Monoclonal Antibody is available for research use only.



Interleukin 31 Antibody IL31/7333 in Human Adrenal Gland IHC. Immunohistochemistry of FFPE human adrenal gland sections using Interleukin 31 Antibody clone IL31/7333. The image shows distinct brown cytoplasmic immunoreactivity within adrenal cortical cells, with staining distributed across broad regions of the tissue and hematoxylin counterstaining providing nuclear contrast. The organized cellular staining demonstrates tissue localization of IL-31 and supports use of this IL-31 Monoclonal Antibody for immunohistochemical detection.



Interleukin 31 Antibody IL31/7333 Purity by SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free Interleukin 31 Antibody clone IL31/7333 under non-reducing (NR) and reducing (R) conditions. The non-reduced sample shows the intact antibody predominantly near the expected ~150 kDa region, while reduction produces the expected immunoglobulin heavy and light chain components at approximately 50 kDa and 25 kDa. The gel demonstrates antibody integrity and purity and supports the defined monoclonal format of this IL-31 Monoclonal Antibody.

Description

Interleukin 31 Antibody IL31/7333 / IL-31 Monoclonal Antibody recognizes interleukin 31, a cytokine belonging to the IL-6 cytokine family. IL-31 is encoded by the IL31 gene and is produced predominantly by activated CD4-positive T cells, particularly cells associated with type 2 immune responses. The cytokine participates in communication between immune cells, epithelial tissues and sensory neurons and has been extensively investigated for its roles in inflammation, barrier-tissue biology and pruritus.

IL-31 signals through a heterodimeric receptor composed of IL31RA and oncostatin M receptor beta (OSMR). Ligand binding activates intracellular pathways that include JAK/STAT, PI3K/AKT and MAPK signaling. These pathways allow IL-31 to influence cytokine production, cellular differentiation and responses within epithelial and immune cell populations. The distribution of IL-31 receptor components across multiple cell types contributes to the diverse biological effects associated with this cytokine.

Interleukin 31 is particularly associated with inflammatory skin biology and itch. Elevated IL-31 signaling has been investigated in atopic dermatitis, prurigo nodularis and other disorders characterized by chronic pruritus and inflammation. IL-31 can act on sensory neurons expressing its receptor complex, providing a molecular connection between immune activation and neuronal pathways involved in itch perception. An IL-31 Monoclonal Antibody can support research into these interactions between immune, epithelial and sensory systems.

IL-31 is also studied in allergic inflammation and other immune-mediated conditions. Its biological effects depend on receptor expression, cellular context and interactions with other cytokine networks. Investigation of IL-31 expression can therefore contribute to understanding type 2 immune responses and the mechanisms through which inflammatory signals influence peripheral tissues.

NSJ Bioreagents offers clone IL31/7333 for research into IL-31 expression and cytokine biology. The Interleukin 31 Antibody terminology provides the expanded cytokine name, while IL-31 Monoclonal Antibody emphasizes the abbreviated designation and monoclonal format of the reagent.

An Interleukin 31 Antibody provides a reagent for investigating IL-31 expression and cytokine biology, while an IL-31 Monoclonal Antibody supports research into inflammation, pruritus and immune-mediated signaling.

For a polyclonal antibody with broad cross-species validation, see our IL-31 Antibody / Interleukin 31 Polyclonal Antibody.

Application Notes

Optimal dilution of the Interleukin 31 Antibody IL31/7333 / IL-31 Monoclonal Antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-164) from the human protein was used as the immunogen for the Interleukin 31 Antibody IL31/7333.

Storage

Aliquot the Interleukin 31 Antibody IL31/7333 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

IL-31 antibody, IL31 antibody, Interleukin-31 antibody, IL-31 Cytokine antibody

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