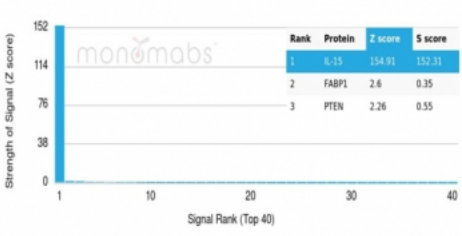
Interleukin 15 Antibody IL15/4696 / IL-T Antibody [clone IL15/4696] (V5070)

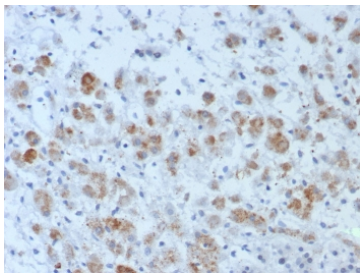
Catalog No.	Formulation	Size
V5070-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5070-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5070SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

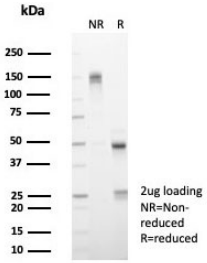
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	IL15/4696
Purity	Protein A/G affinity
UniProt	P40933
Localization	Secreted, Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Interleukin 15 Antibody IL15/4696 / IL-T Antibody is available for research use only.



Interleukin 15 Antibody IL15/4696 Protein Microarray Validated. Protein microarray analysis of Interleukin 15 Antibody (clone IL15/4696) on a HuProt array containing more than 19,000 full-length human proteins shows an exceptionally dominant IL-15 signal with very large separation from the next-ranked proteins. The Z-score represents the target signal in standard deviations above the array mean, while the S-score measures separation between IL-15 and the next-ranked protein. The striking target separation provides strong specificity evidence for this IL-T Antibody.



Interleukin 15 Antibody IL15/4696 Staining in Human Adrenal Gland IHC. Immunohistochemistry staining of FFPE human adrenal gland tissue using Interleukin 15 Antibody (clone IL15/4696) shows heterogeneous brown staining among adrenal cells, with prominent granular cytoplasmic signal in a subset of cells. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. The observed staining demonstrates detection of IL-15 using this IL-T Antibody in human adrenal gland tissue.



Interleukin 15 Antibody IL15/4696 Purity and Integrity by SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free Interleukin 15 Antibody (clone IL15/4696) shows an intact antibody migrating at approximately 150 kDa under non-reducing conditions. Under reducing conditions, a prominent heavy chain is visible at approximately 50 kDa, with the light chain faintly visible in the approximately 25 kDa region. The expected migration pattern supports the integrity and purity of this IL-T Antibody preparation.

Description

Interleukin 15 Antibody IL15/4696 recognizes interleukin 15 (IL-15), an immunoregulatory cytokine encoded by the IL15 gene. IL-15 contributes to the development, survival, proliferation, and activation of several lymphocyte populations and is particularly important for natural killer (NK) cells and memory CD8-positive T cells. Historically referred to as interleukin T (IL-T), IL-15 shares certain biological activities with IL-2 while performing distinct functions in immune-cell homeostasis and regulation.

IL-15 signals through a receptor system containing IL15RA together with IL2RB and IL2RG, the latter two subunits also being used by the IL-2 receptor. A characteristic feature of IL-15 biology is trans-presentation, during which IL-15 bound to IL15RA on one cell is presented to receptor subunits on an adjacent responding cell. This interaction activates JAK1 and JAK3 and downstream pathways that include STAT3 and STAT5, influencing lymphocyte survival, proliferation, and effector activity.

IL-15 is produced by several immune and non-immune cell populations, including monocytes, macrophages, dendritic cells, and stromal cells. Its production and presentation are tightly controlled, helping coordinate immune-cell responses without unchecked lymphocyte expansion. IL-15 is studied in innate and adaptive immunity, infectious disease, inflammatory conditions, cancer immunology, and mechanisms governing NK-cell and memory T-cell function. An IL-T Antibody can therefore support research into the cytokine historically identified as interleukin T and its role in immune regulation.

Clone IL15/4696 is a mouse monoclonal antibody generated against a recombinant fragment of human IL-15. This Interleukin 15 Antibody provides a defined reagent for investigating IL-15 expression and complements research examining cytokine-mediated control of lymphocyte biology. NSJ Bioreagents supplies clone IL15/4696 for research use only.

An Interleukin 15 Antibody can be used to investigate IL-15 expression and its relationship to cytokine signaling, NK-cell biology, T-cell homeostasis, immune regulation, and inflammatory and antitumor immune responses.

For an IL-15 monoclonal with complementary Western blot, IHC, and protein microarray validation, see our IL15 Antibody IL15/4354 / Interleukin-15 Monoclonal Antibody page.

Application Notes

Optimal dilution of the Interleukin 15 Antibody IL15/4696 / IL-T Antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human IL15 was used as the immunogen for the Interleukin 15 Antibody IL15/4696.

Storage

Aliquot the Interleukin 15 Antibody IL15/4696 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

IL-15 antibody, IL15 antibody, interleukin-15 antibody, IL-T antibody, interleukin T antibody

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