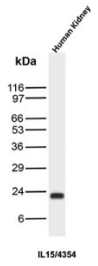
IL15 Antibody IL15/4354 / Interleukin-15 Monoclonal Antibody [clone IL15/4354] (V8776)

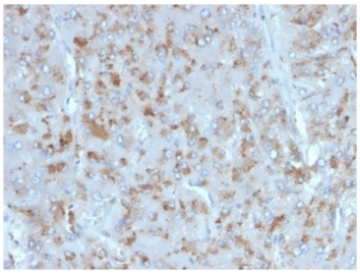
Catalog No.	Formulation	Size
V8776-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8776-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8776SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

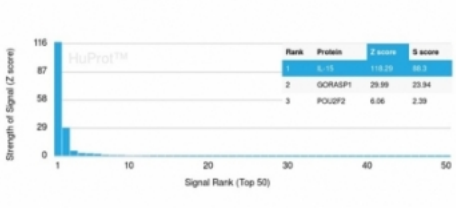
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	IL15/4354
Purity	Protein A/G affinity
UniProt	IDP40933
Localization	Secreted, Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This IL15 Antibody IL15/4354 / Interleukin-15 Monoclonal Antibody is available for research use only.



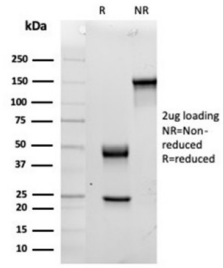
IL15 Antibody IL15/4354 Detects IL-15 in Human Kidney WB. Western blot analysis of human kidney lysate using IL15 Antibody (clone IL15/4354) shows a strong, discrete band at approximately 15-17 kDa with minimal visible background. The observed molecular weight is consistent with mature human IL-15 following removal of its N-terminal signal peptide. The clean single-band result demonstrates detection of IL-15 in human kidney using this Interleukin-15 Monoclonal Antibody.



IL15 Antibody IL15/4354 Staining in Human Adrenal Gland IHC. Immunohistochemistry staining of FFPE human adrenal gland tissue using IL15 Antibody (clone IL15/4354) shows widespread heterogeneous brown staining, with prominent cytoplasmic signal in adrenal 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 staining demonstrates detection of IL-15 using this Interleukin-15 Monoclonal Antibody in human adrenal gland tissue.



IL15 Antibody IL15/4354 Protein Microarray Validated. Protein microarray analysis of IL15 Antibody (clone IL15/4354) on a HuProt array containing more than 19,000 full-length human proteins shows a dominant IL-15 signal with strong separation from the remaining proteins on the array. The Z-score represents the IL-15 signal in standard deviations above the mean signal of the array, while the S-score measures separation between IL-15 and the next-ranked protein. The pronounced target separation provides strong specificity evidence for this Interleukin-15 Monoclonal Antibody.



IL15 Antibody IL15/4354 Purity and Integrity by SDS-PAGE. SDS-PAGE analysis of 2 ug purified IL15 Antibody (clone IL15/4354) shows distinct immunoglobulin heavy and light chains at approximately 45-50 kDa and 22-25 kDa, respectively, under reducing conditions. Under non-reducing conditions, the intact antibody migrates as a prominent band at approximately 140-150 kDa. The expected migration patterns under reducing and non-reducing conditions support the integrity and purity of this Interleukin-15 Monoclonal Antibody preparation.

Description

IL15 Antibody IL15/4354 recognizes interleukin 15 (IL-15), a cytokine encoded by the IL15 gene that contributes to the development, survival, and activation of several immune-cell populations. IL-15 is particularly important for natural killer (NK) cells and memory CD8-positive T cells and also influences additional lymphocyte populations. Although IL-15 shares biological activities with IL-2, the two cytokines have distinct roles in immune regulation and cellular homeostasis.

IL-15 signals through a receptor complex containing IL15RA together with the IL2RB and IL2RG receptor subunits shared with IL-2. A distinctive feature of IL-15 biology is trans-presentation, in which IL-15 bound to IL15RA on one cell is presented to IL2RB/IL2RG on a neighboring responding cell. Receptor engagement activates JAK1 and JAK3 and downstream signaling pathways that include STAT3 and STAT5, supporting lymphocyte proliferation, survival, and effector functions.

IL-15 is produced by several cell types, including monocytes, macrophages, dendritic cells, and stromal populations. Its expression and availability are tightly regulated, helping control immune-cell expansion while limiting inappropriate activation. IL-15 biology is studied extensively in innate and adaptive immunity, infectious disease, inflammatory conditions, cancer immunology, and mechanisms governing NK-cell and memory T-cell function. Because of its central role in lymphocyte biology, IL-15 and its receptor system are also investigated as potential targets for therapeutic modulation of immune responses.

Clone IL15/4354 is a mouse monoclonal antibody generated against a recombinant fragment of human IL-15. This Interleukin-15 Monoclonal Antibody provides a defined reagent for investigating IL-15 expression and complements research focused on the cytokine's roles in immune-cell signaling and regulation. NSJ Bioreagents supplies clone IL15/4354 for research use only.

An IL15 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.

Explore our Immunology Antibodies page for additional antibodies targeting cytokines and regulators involved in lymphocyte signaling, activation, and immune homeostasis.

Application Notes

Optimal dilution of the IL15 Antibody IL15/4354 / Interleukin-15 Monoclonal Antibody should be determined by the researcher.

Immunogen

A recombinant protein fragment was used as the immunogen for the IL15 Antibody IL15/4354.

Storage

Aliquot the IL15 Antibody IL15/4354 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

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

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