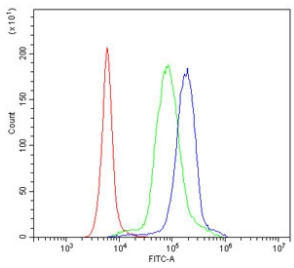
IL-15 Antibody / Interleukin 15 Polyclonal Antibody (RQ6189)

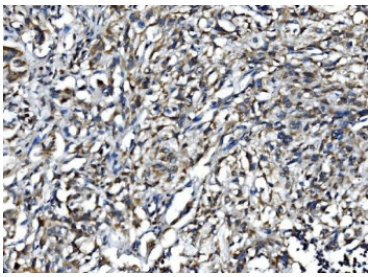
Catalog No.	Formulation	Size
RQ6189	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

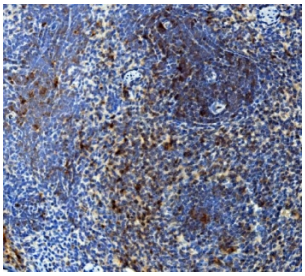
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.0125% sodium azide
UniProt	P40933
Applications	Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This IL-15 Antibody / Interleukin 15 Polyclonal Antibody is available for research use only.



IL-15 Antibody Detection in Human Peripheral Blood Mononuclear Cells FACS. Flow cytometry analysis of human peripheral blood mononuclear (PBM) cells using IL-15 Antibody shows a clear rightward shift of the antibody-stained population (blue) relative to the isotype control (green), while unstained cells are shown in red. Cells were tested with 1 ug antibody per million cells following blocking with goat serum. The distinct fluorescence shift demonstrates detection of IL-15 in human PBM cells using this Interleukin 15 Polyclonal Antibody.



IL-15 Antibody Staining in Human B-Lymphocyte Tumor IHC. Immunohistochemistry staining of FFPE human B-lymphocyte tumor tissue using IL-15 Antibody shows widespread heterogeneous brown staining throughout the tumor, with prominent cytoplasmic and membranous-appearing signal among many cells. HIER was performed by boiling tissue sections in pH 8 EDTA for 20 min followed by cooling before testing. The staining demonstrates detection of IL-15 using this Interleukin 15 Polyclonal Antibody in human B-lymphocyte tumor tissue.



IL-15 Antibody Staining in Rat Spleen IHC. Immunohistochemistry staining of FFPE rat spleen using IL-15 Antibody shows heterogeneous brown staining concentrated in subsets of cells within the splenic tissue, contrasting with surrounding areas showing comparatively little signal. HIER was performed by boiling tissue sections in pH 8 EDTA for 20 min followed by cooling before testing. This rat tissue result demonstrates cross-species detection of IL-15 using the Interleukin 15 Polyclonal Antibody and complements its human validation data.

Description

IL-15 Antibody recognizes interleukin 15 (IL-15), an immunoregulatory cytokine encoded by the IL15 gene that contributes to the development, survival, proliferation, 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 certain biological activities with IL-2, the two cytokines perform distinct roles in immune regulation and lymphocyte homeostasis.

IL-15 signals through a receptor complex containing IL15RA together with IL2RB and IL2RG, the latter two receptor subunits also being used by 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 an adjacent 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 immune and non-immune cell populations, including monocytes, macrophages, dendritic cells, and stromal cells. Its production and availability are tightly regulated, helping coordinate immune-cell expansion and activation. IL-15 is widely studied in innate and adaptive immunity, infectious disease, inflammatory conditions, transplantation biology, and cancer immunology. Its prominent effects on NK cells and memory T cells have also generated interest in manipulating the IL-15 signaling axis to enhance or suppress specific immune responses.

This Interleukin 15 Polyclonal Antibody was generated against a recombinant fragment corresponding to amino acids 70-162 of human IL-15. The polyclonal format provides a population of antibodies recognizing the immunizing IL-15 region and offers a complementary reagent to monoclonal antibodies directed against this cytokine. NSJ Bioreagents supplies this antibody for research use only.

An IL-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 IL-15 Antibody / Interleukin 15 Polyclonal Antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids D70-S162) was used as the immunogen for the IL-15 Antibody.

Storage

After reconstitution, the IL-15 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

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

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