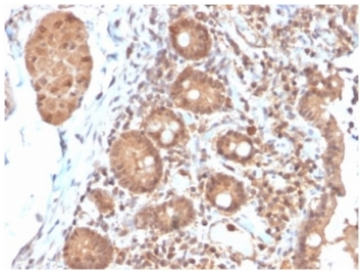
Interleukin 3 Antibody IL3/4004 / IL3 Antibody [clone IL3/4004] (V9564)

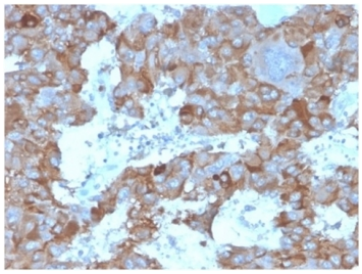
Catalog No.	Formulation	Size
V9564-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9564-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9564SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

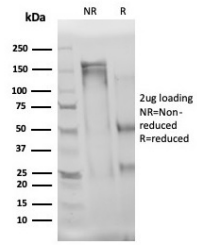
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	IL3/4004
Purity	Protein A/G affinity
UniProt	P08700
Localization	Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Interleukin 3 Antibody IL3/4004 / IL3 Antibody is available for research use only.



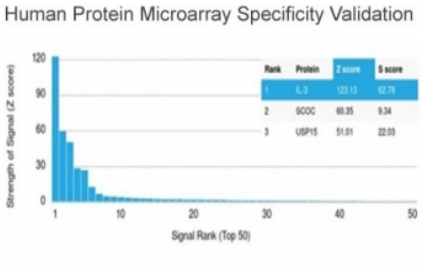
Interleukin 3 Antibody IL3/4004 in Human Colon Carcinoma IHC. Immunohistochemistry of FFPE human colon carcinoma tissue using Interleukin 3 Antibody clone IL3/4004 demonstrates strong brown staining within malignant glandular epithelial cells, while much of the surrounding stromal tissue shows comparatively little signal. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. The distinct tumor-cell staining demonstrates detection of IL-3 by this IL3 Antibody in human colon carcinoma.



Interleukin 3 Antibody IL3/4004 in Human Adrenal Gland IHC. Immunohistochemistry of FFPE human adrenal gland tissue using Interleukin 3 Antibody clone IL3/4004 demonstrates widespread granular brown staining across the adrenal parenchyma, with variation in staining intensity among individual 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 cellular staining demonstrates detection of IL-3 by this IL3 Antibody in human adrenal gland.



Interleukin 3 Antibody IL3/4004 Purity by SDS-PAGE. SDS-PAGE analysis of purified, BSA-free Interleukin 3 Antibody clone IL3/4004 under non-reducing (NR) and reducing (R) conditions confirms antibody integrity and purity. The non-reduced sample shows the expected intact immunoglobulin species at high molecular weight, while reduction resolves the antibody into prominent heavy- and light-chain components. This analysis provides a direct assessment of the purified IL3 Antibody preparation.



Interleukin 3 Antibody IL3/4004 Protein Microarray Validated. HuProt protein microarray analysis of Interleukin 3 Antibody clone IL3/4004 against more than 19,000 full-length human proteins identifies IL-3 as the dominant target signal, clearly separated from the remaining proteins on the array. The Z-score represents signal strength in standard deviations above the mean array signal, while the S-score measures the separation between the intended target and the next highest-ranking protein. The pronounced separation of IL-3 from the background protein population provides strong specificity evidence for this IL3 Antibody.

Description

Interleukin 3 Antibody IL3/4004 recognizes interleukin 3 (IL-3), a cytokine encoded by the IL3 gene that regulates the growth, survival, and differentiation of hematopoietic cells. IL-3 is produced primarily by activated T cells and contributes to communication between immune cells and developing blood-cell populations. Its broad effects on hematopoietic progenitors and differentiated immune cells make IL-3 an important regulator of hematopoiesis and immune responses.

IL-3 exerts its effects through a heterodimeric receptor composed of the IL-3-specific alpha subunit IL3RA (CD123) and the common beta subunit CSF2RB (CD131). The beta subunit is also shared by the receptors for GM-CSF and IL-5. Formation of the functional IL-3 receptor activates intracellular pathways including JAK-STAT, PI3K-AKT, and MAPKs, promoting cellular survival, proliferation, and differentiation in responsive hematopoietic populations.

IL-3 can influence multiple myeloid and lymphoid lineages and has been studied for its effects on hematopoietic progenitor cells, mast cells, basophils, eosinophils, monocytes, and other immune-cell populations. Through these activities, IL-3 contributes to hematopoietic development, host defense, inflammatory responses, and regulation of immune-cell production. Altered IL-3 signaling has also been investigated in hematologic disorders and mechanisms affecting leukocyte expansion and survival.

Clone IL3/4004 is a mouse monoclonal antibody generated against recombinant human IL-3. The antibody has also been evaluated on a HuProt protein microarray containing more than 19,000 full-length human proteins to assess target specificity. As an IL3 Antibody, clone IL3/4004 provides a defined monoclonal reagent for investigating this hematopoietic and immunoregulatory cytokine. NSJ Bioreagents supplies IL3/4004 for research use only.

An Interleukin 3 Antibody can be used to investigate IL-3 expression and molecular mechanisms connecting cytokine signaling, hematopoietic cell development, immune-cell regulation, and inflammatory responses.

Explore our Immunology Antibodies page for additional antibodies targeting cytokines and regulators of immune-cell development and signaling.

Application Notes

Optimal dilution of the Interleukin 3 Antibody IL3/4004 / IL3 Antibody should be determined by the researcher.

Immunogen

A recombinant protein fragment was used as the immunogen for the Interleukin 3 Antibody IL3/4004.

Storage

Aliquot the Interleukin 3 Antibody IL3/4004 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

IL3 antibody, IL-3 antibody, interleukin 3 antibody, interleukin-3 antibody, multipotent colony-stimulating factor antibody, multi-CSF antibody, mast cell growth factor antibody, MCGF antibody

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