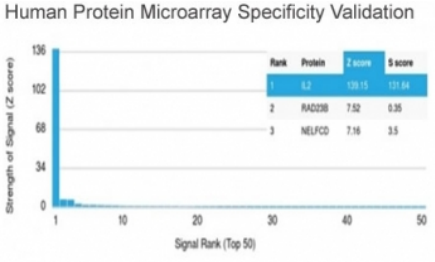
IL-2 Antibody IL2/3950 / T Cell Growth Factor Antibody [clone IL2/3950] (V9539)

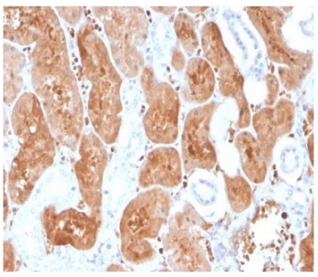
Catalog No.	Formulation	Size
V9539-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9539-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9539SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

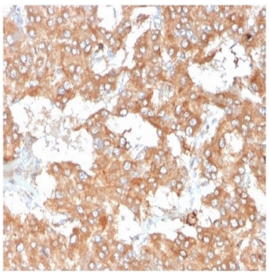
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	IL2/3950
Purity	Protein A/G affinity
UniProt	P60568
Localization	Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This IL-2 Antibody IL2/3950 / T Cell Growth Factor Antibody is available for research use only.



IL-2 Antibody IL2/3950 Protein Microarray Validated. HuProt protein microarray analysis of IL-2 Antibody clone IL2/3950 against more than 19,000 full-length human proteins identifies IL-2 as the highest-ranked target with very strong separation from the remaining proteins on the array. The Z-score represents signal strength in standard deviations above the array mean, while the S-score measures separation between the intended target and the next-highest signal. The pronounced isolated IL-2 signal provides strong orthogonal specificity validation for this T Cell Growth Factor Antibody.



IL-2 Antibody in Human Adrenal Gland IHC. Immunohistochemistry of FFPE human adrenal gland tissue using IL-2 Antibody demonstrates strong, widespread predominantly cytoplasmic staining, 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 prominent cellular staining demonstrates detection of IL-2 by clone IL2/3950, a T Cell Growth Factor Antibody, in human adrenal tissue.



IL-2 Antibody in Human Adrenal Gland IHC. Immunohistochemistry of FFPE human adrenal gland tissue using IL-2 Antibody demonstrates broad cytoplasmic staining with a heterogeneous, granular appearance across the tissue. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. This second tissue field further demonstrates detection of IL-2 by clone IL2/3950 and supports the use of this T Cell Growth Factor Antibody under IHC conditions.

Description

IL-2 Antibody IL2/3950 recognizes interleukin 2 (IL-2), an immunoregulatory cytokine encoded by the IL2 gene. IL-2 is produced primarily by activated T cells following antigenic or mitogenic stimulation and has important functions in lymphocyte proliferation, differentiation, survival, and immune homeostasis. Historically characterized as a T cell growth factor because of its ability to support T-cell proliferation, IL-2 is now understood to have both immune-stimulatory and immune-regulatory activities.

IL-2 signals through receptor complexes containing IL2RA (CD25), IL2RB (CD122), and the common gamma chain IL2RG (CD132). The high-affinity receptor contains all three subunits, while IL2RB and IL2RG form an intermediate-affinity receptor. Engagement of these receptors activates intracellular pathways involving JAK1, JAK3, STAT5, PI3K-AKT, and MAPKs, producing responses that vary according to receptor expression, cell type, and activation state.

Interleukin 2 regulates several lymphocyte populations, including conventional T cells, regulatory T cells, and natural killer cells. In addition to promoting proliferation and effector functions in activated lymphocytes, IL-2 is important for the development, maintenance, and suppressive activity of regulatory T cells. These complementary functions make IL-2 important in studies of immune tolerance, host defense, autoimmunity, and tumor immunity.

Clone IL2/3950 is a mouse monoclonal antibody generated against a region within amino acids 21-153 of human IL-2. 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 a T Cell Growth Factor Antibody, clone IL2/3950 provides a defined monoclonal reagent for investigating the cytokine historically identified through its T-cell proliferative activity. NSJ Bioreagents supplies IL2/3950 for research use only.

An IL-2 Antibody can be used to investigate interleukin 2 expression and molecular mechanisms connecting cytokine signaling, lymphocyte activation, immune regulation, and adaptive immune responses.

For a monoclonal clone with IHC and protein microarray specificity validation, see our Interleukin-2 Antibody IL2/4983 / IL-2 Antibody page.

Application Notes

Optimal dilution of the IL-2 Antibody IL2/3950 / T Cell Growth Factor Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 21-153 was used as the immunogen for the IL-2 Antibody IL2/3950.

Storage

Aliquot the IL-2 Antibody IL2/3950 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

IL2 antibody, IL-2 antibody, interleukin 2 antibody, interleukin-2 antibody, T cell growth factor antibody, T-cell growth factor antibody, TCGF antibody, lymphokine antibody

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