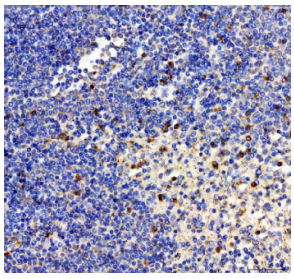
Interleukin 2 Antibody / IL2 Cytokine Antibody (R32742)

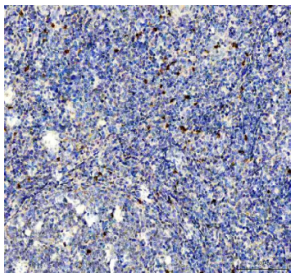
Catalog No.	Formulation	Size
R32742	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

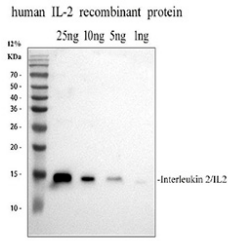
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P60568
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml ELISA: 0.1-0.5ug/ml
Limitations	This Interleukin 2 Antibody / IL2 Cytokine Antibody is available for research use only.



Interleukin 2 Antibody in Human Spleen IHC. Immunohistochemistry of FFPE human spleen tissue using Interleukin 2 Antibody demonstrates distinct cytoplasmic staining in a subset of cells distributed throughout the lymphoid tissue, against a largely negative background. HIER was performed by boiling sections in pH 8 EDTA for 20 min followed by cooling before staining with an HRP-labeled secondary antibody and DAB substrate. The localized cellular staining demonstrates detection of IL-2 by this IL2 Cytokine Antibody in human spleen.



Interleukin 2 Antibody in Human Tonsil IHC. Immunohistochemistry of FFPE human tonsil tissue using Interleukin 2 Antibody demonstrates scattered cytoplasmic staining in a subset of cells within the lymphoid tissue, with most surrounding cells showing little or no detectable signal. HIER was performed by boiling sections in pH 8 EDTA for 20 min followed by cooling before staining with an HRP-labeled secondary antibody and DAB substrate. The discrete cellular staining demonstrates detection of IL-2 by this IL2 Cytokine Antibody in human tonsil.



Interleukin 2 Antibody Detects Recombinant Human IL-2 WB. Western blot analysis of recombinant human IL-2 using Interleukin 2 Antibody demonstrates dose-dependent detection across 25 ng, 10 ng and 5 ng protein loads. A discrete band is visible at approximately 15 kDa in each lane, within the predicted 14-18 kDa molecular weight range for IL-2, with signal intensity decreasing as the amount of recombinant protein is reduced. The clean, concentration-dependent banding demonstrates direct recognition of human IL-2 by this IL2 Cytokine Antibody under Western blot conditions.

Description

Interleukin 2 Antibody recognizes IL-2, an immunoregulatory cytokine encoded by the IL2 gene. IL-2 is produced predominantly by activated T cells and plays an important role in coordinating lymphocyte proliferation, differentiation, survival, and immune homeostasis. Originally characterized for its ability to promote T-cell growth, IL-2 is now recognized as a cytokine with both immune-stimulatory and immune-regulatory functions.

IL-2 signals through a receptor system composed of IL2RA (CD25), IL2RB (CD122), and the common gamma chain IL2RG (CD132). The high-affinity IL-2 receptor contains all three subunits, whereas IL2RB and IL2RG form an intermediate-affinity receptor. Receptor engagement activates intracellular pathways including JAK1, JAK3, STAT5, PI3K-AKT, and MAPKs, producing cellular responses that depend on receptor expression and the physiological state of the responding cell.

IL-2 influences conventional T cells, regulatory T cells, and natural killer cells. It can support proliferation and effector functions in activated lymphocytes while also contributing to 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, inflammation, and tumor immunity.

This antigen-affinity-purified rabbit polyclonal antibody was generated against amino acids 21-153 of human IL-2. As an IL2 Cytokine Antibody, it provides a reagent for investigating a signaling molecule central to communication and regulation among immune cells. NSJ Bioreagents supplies this antibody for research use only.

An Interleukin 2 Antibody can be used to investigate IL-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 Interleukin 2 Antibody / IL2 Cytokine Antibody should be determined by the researcher.

Immunogen

Amino acids A21-T153 from the human protein were used as the immunogen for the Interleukin 2 Antibody.

Storage

After reconstitution, the Interleukin 2 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

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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