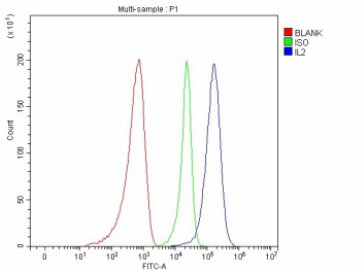
IL2 Antibody / Interleukin 2 Antibody (FY12557)

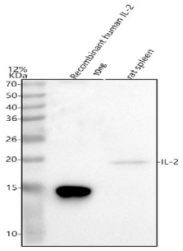
Catalog No.	Formulation	Size
FY12557	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

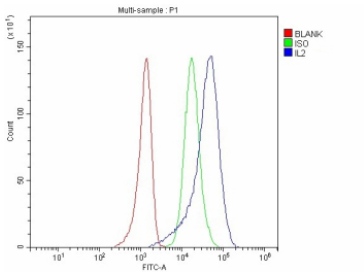
Availability	1-2 days
Species Reactivity	Human, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	P60568
Applications	Western Blot : 0.25-0.5ug/ml ELISA : 0.1-0.5ug/ml FLow Cytometry : 1-3ug/million cells
Limitations	This IL2 Antibody / Interleukin 2 Antibody is available for research use only.



IL2 Antibody Detects IL-2 in JK Cells FACS. Flow cytometry analysis of fixed human JK cells using IL2 Antibody at 1 ug/million cells demonstrates a pronounced rightward fluorescence shift in the antibody-stained population (blue) relative to the rabbit IgG isotype control (green) and unlabeled cells (red). Cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum before staining. The strong population separation demonstrates cellular detection of interleukin 2 by this Interleukin 2 Antibody.



IL2 Antibody Detects Recombinant Human and Endogenous Rat IL-2 WB. Western blot analysis using IL2 Antibody at 0.5 ug/ml detects IL-2 in lane 1, recombinant human IL-2 (10 ng), and lane 2, rat spleen tissue lysate. A strong band is observed at approximately 15 kDa in the recombinant protein lane, while the rat spleen lysate shows a weaker band at approximately 18 kDa, consistent with the expected molecular weight reported for IL-2. Detection in both samples demonstrates recognition of human and rat IL-2 by this Interleukin 2 Antibody.



IL2 Antibody Detects IL-2 in MOLT-4 T Lymphoblast Cells FACS. Flow cytometry analysis of fixed human MOLT-4 T lymphoblast cells using IL2 Antibody at 1 ug/million cells demonstrates a clear rightward fluorescence shift in the antibody-stained population (blue) relative to the rabbit IgG isotype control (green) and unlabeled cells (red). Cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum before staining. The distinct population shift demonstrates cellular detection of interleukin 2 by this Interleukin 2 Antibody in a T-cell leukemia-derived cell line.

Description

IL2 Antibody recognizes interleukin 2 (IL-2), an immunoregulatory cytokine encoded by the IL2 gene. IL-2 is produced primarily by activated T cells and plays an important role in lymphocyte proliferation, differentiation, survival, and immune homeostasis. Its ability to promote effector immune responses while also supporting regulatory T-cell function gives IL-2 a central role in balancing immune activation and tolerance.

IL-2 exerts its biological effects through the IL-2 receptor system, which consists of IL2RA (CD25), IL2RB (CD122), and the common gamma chain IL2RG (CD132). Different combinations of these receptor subunits produce receptors with differing affinities for IL-2. Signaling through the receptor activates pathways involving JAK1, JAK3, STAT5, PI3K-AKT, and MAPKs, resulting in transcriptional programs that regulate lymphocyte growth, survival, and functional differentiation.

Interleukin 2 influences several immune-cell populations, including conventional T cells, regulatory T cells, and natural killer cells. IL-2 can promote expansion of activated lymphocytes and enhance cytotoxic immune functions, while sustained IL-2 signaling is particularly important for regulatory T-cell development and maintenance. Because of these diverse functions, IL-2 is widely investigated in immune tolerance, host defense, autoimmunity, cancer immunology, and cytokine signaling.

This rabbit polyclonal antibody was generated against recombinant human IL-2 corresponding to amino acids 1-153. As an Interleukin 2 Antibody, it provides a reagent for investigating a cytokine that links lymphocyte activation with mechanisms controlling immune homeostasis. NSJ Bioreagents supplies this antibody for research use only.

An IL2 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 IL2 Antibody / Interleukin 2 Antibody should be determined by the researcher.

Immunogen

E.coli-derived human IL2 recombinant protein (Position: M1-T153) was used as the immunogen for the IL2 antibody.

Storage

After reconstitution, the IL2 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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