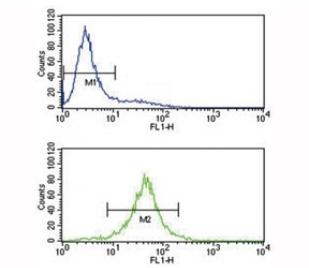
Interleukin 10 Antibody / IL10 Antibody (F51527)

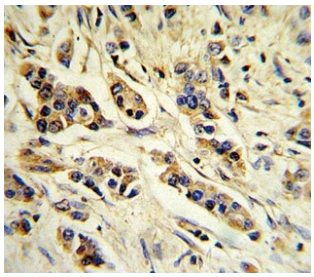
Catalog No.	Formulation	Size
F51527-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F51527-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

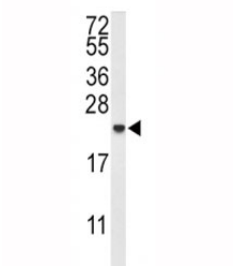
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Primate
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P22301
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50 Flow Cytometry: 1:10-1:50
Limitations	This Interleukin 10 Antibody / IL10 Antibody is available for research use only.



Interleukin 10 Antibody Detection in Human Jurkat T Lymphocytes FACS. Flow cytometry analysis of human Jurkat T lymphocytes using Interleukin 10 Antibody shows a rightward fluorescence shift in the antibody-stained population compared with the negative control. FITC-conjugated goat anti-rabbit IgG was used as the secondary antibody. The observed shift demonstrates detection of IL-10 using this IL10 Antibody in human Jurkat cells.



Interleukin 10 Antibody Staining in Human Breast Carcinoma IHC. Immunohistochemistry staining of FFPE human breast carcinoma tissue using Interleukin 10 Antibody shows distinct brown staining within malignant epithelial cells, with predominantly cytoplasmic localization. Surrounding stromal areas show comparatively weaker staining. The heterogeneous cellular signal demonstrates detection of IL-10 using this IL10 Antibody in human breast carcinoma tissue.



Interleukin 10 Antibody Detects IL-10 in Human MDA-MB-435 Cells WB. Western blot analysis of human MDA-MB-435 cell lysate using Interleukin 10 Antibody shows a discrete band migrating at approximately 23-25 kDa. The predicted molecular weight of human IL-10 is approximately 20 kDa. The observed band is reasonably close to the expected molecular-weight range for IL-10 and demonstrates detection of the target using this IL10 Antibody in MDA-MB-435 cell lysate.

Description

Interleukin 10 Antibody detects IL-10, an immunoregulatory cytokine encoded by the IL10 gene. IL-10 plays a central role in limiting excessive immune activation and maintaining immune homeostasis. It was originally identified through its ability to inhibit cytokine production by activated immune cells and is now recognized as an important mediator of anti-inflammatory responses. IL-10 can regulate both innate and adaptive immunity, allowing immune responses to control pathogens and other challenges while reducing the potential for prolonged inflammation and tissue injury.

IL-10 exerts its effects through a receptor complex containing IL10RA and IL10RB. Receptor engagement activates JAK1 and TYK2 and promotes STAT3-dependent transcription. This signaling pathway induces regulatory programs that suppress production of several pro-inflammatory cytokines and influence antigen presentation, immune-cell activation, and inflammatory feedback mechanisms. IL10 Antibody reagents are therefore useful for research examining cytokine-mediated regulation and the molecular mechanisms that restrain inflammatory responses.

IL-10 can be produced by numerous immune-cell populations, including T cells, B cells, monocytes, macrophages, and dendritic cells. Its biological effects depend on cellular context and the surrounding cytokine environment. In addition to limiting inflammatory mediator production, IL-10 can affect lymphocyte survival and function and alter the activity of antigen-presenting cells. These diverse actions have made IL-10 an important research target in immunology, inflammation, infectious disease, autoimmunity, and tumor immunology.

This rabbit polyclonal Interleukin 10 Antibody was generated against a peptide corresponding to amino acids 27-53 of human IL-10. The targeted region lies within the IL-10 protein and provides an approach distinct from antibodies generated against full-length antigen. NSJ Bioreagents supplies this IL10 Antibody for research use only.

An Interleukin 10 Antibody can be used to investigate IL-10 expression and its relationship to cytokine signaling, immune regulation, inflammatory control, and mechanisms that maintain immune homeostasis.

For a recombinant rabbit monoclonal with complementary IL-10 validation, see our IL-10 Antibody IL10/2651R / CSIF Antibody page.

Application Notes

Titration of the Interleukin 10 Antibody / IL10 Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 27-53 from the human protein was used as the immunogen for this Interleukin 10 Antibody.

Storage

Aliquot the Interleukin 10 Antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

IL-10 antibody, IL10 antibody, interleukin-10 antibody, cytokine synthesis inhibitory factor antibody, CSIF antibody

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