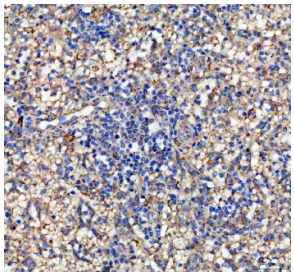
Human IL-10 Antibody / Human Interleukin 10 Antibody (R30116)

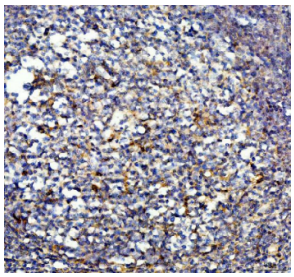
Catalog No.	Formulation	Size
R30116	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

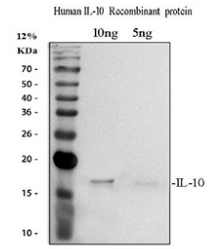
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P22301
Applications	Western Blot : 0.5-1ug/ml (human protein tested) Immunohistochemistry (FFPE) : 2-5ug/ml ELISA : 0.1-0.5ug/ml (human protein tested)
Limitations	This Human IL-10 Antibody / Human Interleukin 10 Antibody is available for research use only.



Human IL-10 Antibody Staining in Human Spleen IHC. Immunohistochemistry staining of FFPE human spleen tissue using Human IL-10 Antibody shows widespread brown staining among splenic cells, with heterogeneous signal intensity across the field. Tissue sections underwent HIER by boiling in pH 8 EDTA for 20 min followed by cooling before testing. HRP-labeled secondary antibody and DAB substrate were used for detection. The staining demonstrates detection of IL-10 using this Human Interleukin 10 Antibody in human spleen tissue.



Human IL-10 Antibody Staining in Human Appendix IHC. Immunohistochemistry staining of FFPE human appendix tissue using Human IL-10 Antibody shows heterogeneous brown staining throughout the cellular compartment, with areas of prominent cytoplasmic signal. Tissue sections underwent HIER by boiling in pH 8 EDTA for 20 min followed by cooling before testing. HRP-labeled secondary antibody and DAB substrate were used for detection. The observed staining demonstrates IL-10 detection using this Human Interleukin 10 Antibody in human appendix tissue.



Human IL-10 Antibody Detects Recombinant Human IL-10 WB. Western blot analysis of recombinant human IL-10 using Human IL-10 Antibody at 0.5 ug/ml shows a discrete band at approximately 17-18 kDa. Recombinant protein was loaded at 10 ng and 5 ng, with detectable signal at both amounts and greater intensity in the 10 ng lane. The observed molecular weight is consistent with mature human IL-10 following removal of its signal peptide. This Human Interleukin 10 Antibody demonstrates concentration-dependent detection of recombinant human IL-10.

Description

Human IL-10 Antibody recognizes interleukin 10 (IL-10), an immunoregulatory cytokine encoded by the IL10 gene. IL-10 plays an important role in controlling the magnitude and duration of immune responses by limiting excessive inflammatory activity. Originally identified as cytokine synthesis inhibitory factor, IL-10 can suppress the production of several pro-inflammatory cytokines and influence antigen presentation, immune-cell activation, and mechanisms that maintain immune homeostasis.

Human IL-10 signals through a heterotetrameric receptor complex containing IL10RA and IL10RB. Receptor engagement activates JAK1 and TYK2, leading predominantly to STAT3 phosphorylation and STAT3-dependent transcription. This signaling pathway induces regulatory programs that restrain inflammatory responses and help protect tissues from prolonged immune-mediated damage. The balance between IL-10 activity and pro-inflammatory signaling is therefore an important area of research in immune regulation.

IL-10 is produced by numerous immune-cell populations, including T cells, B cells, monocytes, macrophages, and dendritic cells. Its effects can vary with cell type, activation state, and the surrounding cytokine environment. Altered IL-10 expression and signaling are studied in inflammatory and autoimmune disorders, infectious disease, cancer, and immune tolerance. A Human Interleukin 10 Antibody provides a species-focused reagent for investigating IL-10 expression in research centered specifically on the human cytokine.

This rabbit polyclonal Human IL-10 Antibody was generated against recombinant human IL-10 and is affinity purified. Its species-focused design distinguishes it from IL-10 antibodies intended for mouse, rat, or broader cross-species research. NSJ Bioreagents supplies this antibody for research use only.

A Human IL-10 Antibody can be used to investigate human IL-10 expression and its relationship to cytokine signaling, inflammatory regulation, immune homeostasis, and mechanisms controlling innate and adaptive immune responses.

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

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Human IL-10 Antibody / Human Interleukin 10 Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Interleukin-10 partial recombinant protein (AA 19-178) was used as the immunogen for this Human IL-10 Antibody.

Storage

After reconstitution, the Human IL-10 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

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

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