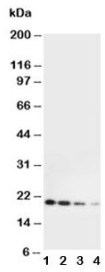
Mouse IL-10 Antibody / Mouse Interleukin 10 Antibody (R30117)

Catalog No.	Formulation	Size
R30117	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 0.025% sodium azide
UniProt	P18893
Applications	Western blot: 0.5-1ug/ml ELISA: 0.1-0.5ug/ml (mouse protein tested)
Limitations	This Mouse IL-10 Antibody / Mouse Interleukin 10 Antibody is available for research use only.



Mouse IL-10 Antibody Detects Recombinant Mouse IL-10 WB. Western blot analysis of recombinant mouse IL-10 using Mouse IL-10 Antibody shows a discrete band at approximately 18-20 kDa. Recombinant mouse IL-10 was loaded at 10 ng, 5 ng, 2.5 ng, and 1.25 ng in lanes 1-4, respectively. Band intensity decreases progressively with decreasing protein input while the apparent molecular weight remains consistent across all four lanes. The clear concentration-dependent signal demonstrates detection of recombinant mouse IL-10 using this Mouse Interleukin 10 Antibody.

Description

Mouse IL-10 Antibody recognizes murine interleukin 10 (IL-10), an immunoregulatory cytokine encoded by the Il10 gene. IL-10 plays an important role in controlling inflammatory responses and maintaining immune homeostasis. It limits excessive immune activation by regulating the production of pro-inflammatory cytokines and influencing antigen-presenting cells, lymphocytes, macrophages, and other immune-cell populations. These functions help balance effective immune responses with mechanisms that protect tissues from prolonged inflammation.

Mouse IL-10 signals through a receptor complex containing IL10RA and IL10RB subunits. Receptor engagement activates JAK1 and TYK2 and promotes STAT3-dependent transcription. This signaling pathway induces regulatory programs that suppress inflammatory mediator production and modify immune-cell activation. IL-10-mediated signaling therefore provides an important feedback mechanism through which inflammatory responses can be restrained after immune activation.

IL-10 is produced by multiple immune-cell populations, including regulatory and conventional T cells, B cells, macrophages, monocytes, and dendritic cells. Its effects vary according to cellular context, activation state, and the surrounding cytokine environment. Mouse models are widely used to investigate IL-10 biology in immune regulation, inflammation, infection, autoimmunity, and cancer. A Mouse Interleukin 10 Antibody provides a species-focused reagent for investigating murine IL-10 expression in research centered specifically on the mouse cytokine.

This rabbit polyclonal Mouse IL-10 Antibody was generated against a recombinant mouse IL-10 protein corresponding to amino acids 19-178 and is antigen affinity purified. Its species-focused design distinguishes it from IL-10 antibodies intended for human, rat, or broader cross-species research. NSJ Bioreagents supplies this antibody for research use only.

A Mouse IL-10 Antibody can be used to investigate murine 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 Mouse IL-10 Antibody / Mouse Interleukin 10 Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

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

Storage

After reconstitution, the Mouse 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

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

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