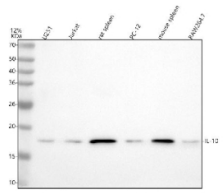
IL10 Antibody AOIG-9 / Recombinant Interleukin-10 Monoclonal Antibody [clone AOIG-9] (FY12858)

Catalog No.	Formulation	Size
FY12858	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AOIG-9
Purity	Affinity chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P22301
Applications	Western Blot: 0.25-0.5ug/ml Immunocytochemistry: 5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This IL10 Antibody AOIG-9 / Recombinant Interleukin-10 Monoclonal Antibody is available for research use only.



IL10 Antibody AOIG-9 Detects IL-10 in Human and Rodent Samples WB. Western blot analysis of human U251 and Jurkat cell lysates, rat spleen and PC-12 cell lysates, and mouse spleen and RAW 264.7 cell lysates using IL10 Antibody (clone AOIG-9) shows a discrete band at approximately 17 kDa across all six samples. The observed molecular weight is consistent with mature, processed IL-10 following removal of its signal peptide and is slightly below the approximately 21 kDa calculated size of the precursor protein. This Recombinant Interleukin-10 Monoclonal Antibody demonstrates IL-10 detection across human, rat, and mouse samples.

Description

IL10 Antibody AOIG-9 recognizes interleukin 10 (IL-10), a secreted cytokine encoded by the IL10 gene. IL-10 is an important regulator of immune homeostasis that helps limit excessive inflammatory responses and immune-mediated tissue damage. Originally described as cytokine synthesis inhibitory factor, IL-10 can suppress production of several pro-inflammatory mediators while influencing antigen presentation and the activation and differentiation of immune cells.

IL-10 exerts its biological effects through a receptor complex composed of IL10RA and IL10RB subunits. Ligand binding activates the receptor-associated kinases JAK1 and TYK2, resulting in phosphorylation and activation of STAT3. STAT3-dependent transcription induces regulatory genes that help restrain inflammatory signaling and modulate immune-cell responses. Through this pathway, IL-10 provides an important feedback mechanism for controlling the intensity and duration of inflammation.

IL-10 is produced by multiple immune-cell populations, including regulatory and conventional T cells, B cells, monocytes, macrophages, and dendritic cells. Its biological activity can affect both innate and adaptive immunity, and its function depends strongly on cellular and disease context. Altered IL-10 expression or signaling is studied in inflammatory and autoimmune disorders, infectious disease, cancer, and mechanisms of immune tolerance. IL10 Antibody reagents are therefore useful for investigating the balance between immune activation and immunoregulatory signaling.

Clone AOIG-9 is a recombinant rabbit monoclonal antibody generated against a synthetic peptide derived from human interleukin-10. The recombinant monoclonal format provides a defined antibody reagent for studies of IL-10 expression. This Interleukin-10 Monoclonal Antibody is supplied by NSJ Bioreagents for research use only.

An IL10 Antibody can be used to investigate 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

Optimal dilution of the IL10 Antibody AOIG-9 / Recombinant Interleukin-10 Monoclonal Antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Interleukin-10 was used as the immunogen for the IL10 Antibody AOIG-9.

Storage

Store the IL10 Antibody AOIG-9 at -20oC.

Alternate Names

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

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