

Product datasheet for **AM31353AF-N**

IL10 Mouse Monoclonal Antibody [Clone ID: B-S10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	B-S10
Applications:	ELISA, FN
Recommended Dilution:	Functional Assay: Blocks IL-10 induced proliferation on MC/9 cell line. ELISA Capture Antibody: This Clone B-S10 can be used as Capture in a Human IL-10 Sandwich Immunoassay to detect Human IL-10 in combination with Human IL-10 Detection Antibody <i>Cat.-No</i> AM31334BT-N. Recommended Coating Concentration: 1-5 µg/ml for ELISA and 5-10 µg/ml for ELISpot .
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human IL-10. Hybridoma: Myeloma X63/AG.8653 x Balb/c spleen cells.
Specificity:	Recognizes both natural and recombinant Human IL-10. No cross reactivity is observed with IL-1, IL-2, IL-6, IL-8 and TNF-alpha. Mouse anti Human Interleukin-10 antibody, Clone B-S10 is able to block binding of IL-10 to its receptor (<i>Schandené et al.</i> 1994).
Formulation:	PBS, Sterile-filtered through 0.22 µm and treated to remove endotoxins. Carrier and preservative free State: Azide Free State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 10



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Database Link: [Entrez Gene 3586 Human P22301](#)

Background: Interleukins (ILs) are a large group of cytokines that are produced mainly by leukocytes, although some are produced by certain phagocytes and auxiliary cells. ILs have a variety of functions, but most function to direct other immune cells to divide and differentiate. Each IL acts on a specific, limited group of cells through a receptor specific for that IL. Human IL10 is a non glycosylated polypeptide consisting of 178 amino acids. There is 73% homology between the human and mouse IL10 proteins, however, the human IL10 acts on both human and mouse target cells, while the mouse IL10 has species specific activity. The cellular sources of IL10 are CD4+ T cells and T cell clones, thymocytes, B cells and B cell lymphomas, macrophages, mast cell lines and keratinocytes. IL10 will stimulate the growth of stem cells, mast cells and thymocytes. IL10 enhances cytotoxic T cell development, and costimulates B cell differentiation and immunoglobulin secretion. IL10 inhibits cytokine production by macrophages and suppresses macrophage class II MHC expression. The human IL10 gene is on human chromosome 1.

Synonyms: IL-10, CSIF, TGIF

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways: Allograft rejection, Asthma, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Systemic lupus erythematosus, T cell receptor signaling pathway