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Product datasheet for AM39036FC-N

IL10 Mouse Monoclonal Antibody [Clone ID: BN-10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BN-10
Applications:	FC, IHC
Recommended Dilution:	**Flow cytometry:** 10 µl of antibody solution for 10^6 leucocytes. The clone is also suitable for **IHC** (frozen tissue). Please note: The level of most of the cytokines produced by immune unstimulated cells is too low to be detected by flow cytometry analysis. (19) After stimulation the level of cytokines is rising and depending on the way of stimulation, the cell population, the secretion inhibitor that is used and several other factors several cytokines are upregulated and in detectable concentrations present. Therefore, a method comprising cell stimulation, fixation and permeabilization should be used to make detection of the intracellularly expressed cytokines possible. Fluorochrome-labelled antibodies are effectively formulated for direct immunofluorescent staining of human cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	The antibody detects Interleukin 10, which is 18 kDa in size and belongs to the group of cytokines produced by activated human TH2 cells, monocytes and macrophages. Other species not tested.
Formulation:	0.01 M sodium phosphate, 0.15 M NaCl, pH 7.3, 0.2% BSA, 0.09% sodium azide Label: FITC State: Liquid purified Ig fraction Label: **Cat. No. /Label EX-max (nm) / EM-max (nm):** AM39036FC-N / FITC 488 / 519 AM39036RP-N / PE 488, 532 / 578
Concentration:	lot specific
Purification:	Affinity chromatography

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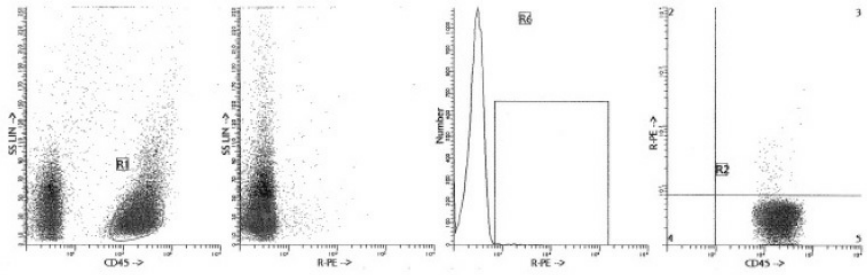
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C. Fluorochrome labelled product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 10
Database Link:	Entrez Gene 3586 Human P22301
Background:	The immune system reacts to a pathogen by activation of balanced network of the humoral and cellular immune responses. Subsequently the activated condition of the immune system will, after the elimination of the pathogen, be down-regulated to a balanced situation again. Control of the immune response requires efficient communication between the different cells involved in this response. This interaction is provided by cell/cell contact and by a complex array of mediators. Among these mediators cytokines, soluble factors produced by these cells, play an important role. Cytokines can act on other cells locally or distantly, but can be even auto regulating. Cytokines can behave stimulatory or inhibitory, or can even perform both activities, depending on the (pre)activation stage of the target cell. (3, 4) Interleukin 10 (IL-10) belongs to the group of cytokines produced by TH2 cells and monocytes. It plays a role in B cell proliferation and antibody responses.
Synonyms:	IL-10, CSIF, TGIF
Note:	1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label. 2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. 3. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.
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

Product images:



Representative Data Clone B-N10 (anti-IL-10) was analyzed by flow cytometry: Peripheral blood (lymphocytes) were isolated from a blood sample obtained from a healthy volunteer and subsequently activated, fixed and permeabilized. Direct staining was performed using 10 µl of PE-conjugated monoclonal antibody in combination with 10 µl of anti-CD45 FITC per sample.