

## Product datasheet for **SM1703R**

### IL10 Rat Monoclonal Antibody [Clone ID: JES3-9D7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	JES3-9D7
Applications:	FC
Recommended Dilution:	Flow cytometry: Membrane permeabilisation is required for this application.
Reactivity:	Human
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognises IL-10 and may be used for the flow cytometric detection of intracellular IL-10.
Formulation:	PBS containing 0.09% Sodium Azide and 0.5% Bovine Serum Albumin Label: PE State: Lyophilized purified IgG Label: R. Phycoerythrin (RPE)
Concentration:	lot specific
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: 6 month from despatch.
Gene Name:	interleukin 10
Database Link:	<a href="#">Entrez Gene 3586 Human P22301</a>



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**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