

Product datasheet for **AM05874PU-N**

IL10 Mouse Monoclonal Antibody [Clone ID: CC318]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CC318
Applications:	ELISA, Elispot, FC
Recommended Dilution:	ELISA: 5-10 µg/ml. This reagent may be used as a Capture antibody in a sandwich ELISA assay for bovine IL-10 in combination with SM1866B as detection reagent (See Bannerman, D.D.et al). ELISPOT. Flow Cytometry: Membrane permeabilization is required for this application. We recommend the use of Leucoperm for this purpose.
Reactivity:	Bovine, Equine, Sheep
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Plasmid cDNA encoding Bovine IL-10.
Specificity:	This antibody recognizes IL-10. Clone CC318 has been shown not to inhibit the biological activity of IL-10.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction from Tissue Culture Supernatant Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 281246 Bovine P43480



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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