

Product datasheet for **SM481**

IL6 Mouse Monoclonal Antibody [Clone ID: 4B6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4B6
Applications:	ELISA, FC, WB
Recommended Dilution:	Western blotting: Flow cytometry: (Requires membrane permeabilization). ELISA: 5 µg/ml as a coating antibody. Use in combination with SP1250 in a Sandwich ELISA assays for Ovine IL-6.
Reactivity:	Monkey, Sheep
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Ovine IL-6
Specificity:	Recognises ovine interleukin-6 (IL-6) and has also been reported to recognise recombinant human IL-6 and bovine IL-6 transfected cells. Clone 4B6 does not cross react with ovine IL-1 beta, IL-8, MCP-1 or TNF alpha.
Formulation:	PBS pH 7.4 containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf live: One year from despatch.
Database Link:	P29455



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Background:

Interleukin 6 (IL6) is a multifunctional 24 kDa protein originally discovered in the medium of RNA stimulated fibroblastoid cells. It is upregulated by IL1, TNF, PDGF, IFN beta, TNF alpha, NGF, IL17 and downregulated by glucocorticoids IL4, TGF beta. IL6 appears to be directly involved in the responses that occur after infection and cellular injury, and it may prove to be as important as IL1 and TNF alpha in regulating the acute phase response. IL6 has also been implicated in regulating adipose mass.

IL6 is reported to be produced by fibroblasts, activated T cells, activated monocytes or macrophages and endothelial cells. It acts upon a variety of cells including fibroblasts, myeloid progenitor cells, T cells, B cells and hepatocytes. In addition, IL6 appears to interact with IL2 in the proliferation of T lymphocytes. IL6 potentiates the proliferative effect of IL3 on multipotential hematopoietic progenitors.

Synonyms:

IL-6, Interferon beta-2, IFNB2, B-cell stimulatory factor 2, BSF-2, CDF