DENDRITICS

Monoclonal Anti-human Interleukin-4

Product reference: DDX0311

Description:

Interleukin-4 (IL-4) is a monomeric 20 kDa predominantly produced by activated T lymphocytes of the Th2 phenotype, by mast cells and by some antigen-presenting cells. Together with IL-2, IL-4 is an autocrine growth factor for activated T cells and for cytotoxic T cell precursors. IL-4 is a major factor involved in the activation of resting B lymphocytes. Together with IL-13, IL-4 induces isotype switch towards IgE and IgG1 isotypes. 11B4, was produced from a rat immunized with purified human IL4-transfected-COS7 cells. It recognized both E. coli-expressed and mammalian cell-expressed (COS7 and L cell), rhuIL-4 in solution (immunoprecipitation), as well as on solid phase (indirect ELISA and dot-blotting). The 11B4 antibody inhibited IL-4 bioactivity at an IC50 which was 25-50-fold in molar excess of factor. The 11B4 antibody was used to develop an immunoenzymatic assay capable of detecting concentrations less than 100 pg/ml. *(Chrétien I et al, 1989, J. Immunol. Methods, 1178 (1) : 67-81; Ramanathan L.et al, 1993, Biochemistry, 32 (14) :3549-56).*

Clone:	**11B4**
Species:	rat
Specificity:	human interleukin-4
Immunogen:	Human IL4-transfected Cos7 cells
Species cross-reactivity:	not tested
Isotype:	IgG2a
Formulation/size:	**Purified**: 100 µg in 200 µl / 50 µg in 100 µl Tris-NaCl pH 8 **Coupled**: 100 µg in 200 µl / 50 µg in 100 µl PBS 50% glycerol

Available formats:

Reference N°		Format	Application tested
50 µg	**100 µg**		
DDX0311P-50	DDX0311P-100	Purified	ELISA, IP, Neutralization of IL4 bioactivity

Usage recommendation:

*****This monoclonal antibody may be used between 1-10 µg/ml.
*Optimal dilution should be determined by each laboratory for each application.
*Coupled antibody: to maintain RT before use.

Aliquot storage conditions:

-20°C. KEEP CONTENTS STERILE: no preservative.
<u>Purified</u> antibodies: avoid repeated freeze/thaw cycles.
<u>Coupled</u> antibodies: glycerol protects from freezing.

Not for use in Humans. For research purpose only

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