

IL4

Mouse Anti-Human Interleukin-4 (Clone 5B5) mAb

Catalog No.	CMI020	Quantity:	500 µg
Alternate Names:	BCGF-1, BSF-1, IL-4		
Description:	The mouse monoclonal antibody recognizes human interleukin-4 (IL-4), a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for the IL-4 receptor. IL-4 has many functions, including stimulation of T cell and B cell proliferation, induction of differentiation of naive CD4+ T cells into Th2 cells, and induction of B cell isotype switching to IgE, associated with an allergic phenotype.		
Gene ID:	3565		
UniProtKB:	P05112		
Conjugate:	Unconjugated		
Specificity:	Native and recombinant human IL-4		
Host:	Mouse		
Isotype:	IgG1		
Clone:	5B5		
Production:	Produced <i>in vitro</i> using serum free medium		
Purification:	Ion exchange chromatography		
Formulation:	Lyophilized from a sterile filtered solution in 500 µL PBS, 125 mM trehalose.		
Quantitation:	The concentration of protein was determined by absorbance, taking $A_{280} = 1.4$ for a 1 mg/mL solution.		
Biological Activity:	Efficiently inhibits IL4 -induced IgE production and IL4 induced T-cell proliferation.		
Applications:	ELISA, ELISPOT, Immunohistochemistry, Functional Studies		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute the contents of the vial with of 500 µL sterile distilled water.		
Storage:	Store desiccated at 4 °C for up to one year. Upon reconstitution, store at 4 °C for up to one month or in working aliquots at -20 °C for up to one year. Avoid repeated freeze-thaw cycles.		

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