

IL4

Mouse Anti-Human IL-4 (Clone B-R14) mAb, Azide Free

Catalog No.	CDM104A CDM104B CDM104C	Quantity:	200 µg 500 µg 1.0 mg
Alternate Names:	Interleukin-4, B cell growth factor, BCGF-1, BCGF1, BSF-1, BSF1		
Description:	<p>IL-4 is a lymphokine that co-stimulates the proliferation of activated B- and T-cells, augments the cytotoxic activity of lymphocytes and monocytes and enhances the functional activity of myeloid cells. Produced by mast cells, T-cells and bone marrow stromal cells, IL-4 regulates the differentiation of naive CD4+ cells into helper Th2 cells characterized by their cytokine secretion-profile that includes secretion of IL-4, IL-5, IL-6, IL-10 and IL-13 which favour a humoral immune response. In addition, IL-4 can inhibit the proliferation of TNF, IL-1 and IL-6 by macrophages</p> <p>IL-4 induces B-cell class switching to IgE and IgG1 isotypes, and up regulates MHC Class II production and CD23 expression.</p> <p>IL-4 is a 15kDa globular glycoprotein containing 129 amino acid residues. The nonglycosylated form of the protein is fully biologically active.</p>		
UniProt ID:	P05112		
Gene ID:	3565		
Concentration:	1.0 mg/ml		
Specificity:	Recognizes both native and recombinant human IL-4		
Hybridoma:	Myeloma X63/AG.8653 x BALB/c spleen cells		
Immunogen:	Recombinant human IL-4		
Isotype:	Mouse IgG1k		
Clone:	B-R14		
Formulation:	Sterile-filtered PBS, carrier and preservative free.		
Purification:	Affinity chromatography from serum free cell culture		
Applications:	<p>ELISA: Use as Capture Antibody at 0.05-0.5 µg/ml, in a human IL-4 sandwich ELISA in combination with biotinylated human IL-4 Detection Antibody (Cat No CDM425).</p> <p>ELISPOT: Use as Capture Antibody at 5-10 µg/ml for human IL-4.</p> <p>The optimal concentration should be determined by the user for each specific application.</p>		
Storage & Stability:	Store at 2-8°C for up to 1 year or in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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