



Anti-Human IL-4

20150304ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	101-M05
Size:	500 µg
Lot. No.:	According to product label

Preparation: Monoclonal antibodies were produced in BALB/c x C57B1/6 F1 mice using recombinant human IL-4 as the immunizing antigen. IgG2a antibody was purified from ascites fluid on a Protein A affinity column.

Target Background

Synonyms (Target):	IL4; BSF1; IL-4; BCGF1; BSF-1; BCGF-1
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Interleukin 4 (IL-4) is a pleiotropic cytokine produced by activated T cells, mast cells, and basophils. It was initially identified as a B cell differentiation factor (BCDF), as well as a B cell stimulatory factor (BSF1). IL-4 has since been shown to have multiple biological effects on hematopoietic and non-hematopoietic cells, including B and T cells, monocytes, macrophages, mast cells, myeloid and erythroid progenitors, fibroblasts, and endothelial cells. Rat, mouse and human IL-4 are species-specific in their activities.

Database References Target

Protein RefSeq:	NP_000580
Uniprot ID:	P05112
mRNA RefSeq:	NM_000589

Product Specifications

Species reactivity	Human
Cross reactivity	Human
Host	Mouse
Clonality	Monoclonal Antibody
Purification	Protein A chromatography
Immunogen	recombinant human IL-4
Formulation	lyophilized
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: Lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least 2 weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Western Blot:

To detect hIL-4 by Western Blot analysis this antibody can be used at a concentration of 0.2 - 0.5 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hIL-4 is 0.25-1.0 ng/lane, under reducing or non-reducing conditions.

ELISA:

In a sandwich ELISA (assuming 100 µl/well), a concentration of 0.5 - 1 µg/ml of this antibody will detect at least 2000 pg/ml of recombinant human IL-4 when used with biotinylated antigen affinity purified anti-human IL-4 as the detection antibody at a concentration of approximately 2 - 4 µg/ml.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!