

Datasheet: MCA6240GA

Description:	MOUSE ANTI HUMAN INTERLEUKIN-4
Specificity:	IL-4
Other names:	BSF-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	B04-9E1
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1.0 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	<i>E. coli</i> derived recombinant human full length interleukin-4 (His25-Ser153)
External Database Links	<p>UniProt: P05112 Related reagents</p> <p>Entrez Gene: 3565 IL4 Related reagents</p>
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity **Mouse anti Human interleukin-4 antibody, clone B04-9E1**, recognizes interleukin-4 (IL-4) also known as B-cell stimulatory factor 1, binetrakin and lymphocyte stimulatory factor 1. IL-4 is a cytokine largely expressed and secreted by CD4⁺ T helper cells, basophils, eosinophils, mast cells and natural killer cells ([Junttila 2018](#)). IL-4 is expressed at low levels under physiological conditions, with the levels influenced by hormones, cellular/oxidative stress, infection and inflammation ([McCormick & Heller 2015](#)).

IL-4 plays important roles in both physiological and pathological conditions such as Th2 cell-mediated immunity, IgE and IgG1 class switching in B cells and tissue repair and homeostasis through alternative macrophage activation ([Gadani et al. 2013](#)). The effect of IL-4 is mediated through the receptor IL-4R α . Upon binding of IL-4 to IL-4R α , the complex binds to a secondary receptor chain, IL-2R γ c or IL-13R α 1. This receptor complex is then able to induce intracellular signaling via JAK1 and JAK3 ([Junttila 2018](#)).

The purified Mouse anti Human interleukin-4 antibody, clone B04-9E1 (MCA6240GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human interleukin-4 antibody, clone B03-6A7 ([MCA6241B](#)) as the detection antibody.

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6240GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@680 , DyLight@800 , FITC , HRP
Goat Anti Mouse IgG (STAR70...)	FITC

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN INTERLEUKIN-4:Biotin \(MCA6241B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M384581:210513'

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