

Datasheet: MCA6241B BATCH NUMBER 100005151

Description:	MOUSE ANTI HUMAN INTERLEUKIN-4:Biotin		
Specificity:	IL-4		
Other names:	BSF-1		
Format:	Biotin		
Product Type:	Monoclonal Antibody		
Clone:	B03-6A7		
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 conjugated to Biotin - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein G supernatant	from tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml	
Immunogen	E. coli derived recombinant human full length interleukin-4 (His	s25-Ser153)

External	Database
Links	

UniProt:

P05112 Related reagents

Entrez Gene:

3565 IL4 Related reagents

Fusion Partners

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity

Mouse anti Human interleukin-4 antibody, clone B03-6A7, 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 (<u>Junttila 2018</u>). 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 (<u>Gadani et al. 2013</u>). 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 (<u>Junttila 2018</u>).

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

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend

microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

https://www.bio-rad-antibodies.com/SDS/MCA6241B

10041

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

MOUSE ANTI HUMAN INTERLEUKIN-4 (MCA6240GA)

ELISA Matched Pair - Capture Antibody

MOUSE ANTI HUMAN INTERLEUKIN-4 (MCA6240GA)

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 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

Fax: +1 919 878 3751 Fax: +44 (0)1865 852 739 Fax: +49 (0) 89 8090 95 50 To
Email: antibody_sales_us@bio-rad.com Email: antibody_sales_uk@bio-rad.com Email: antibody_sales_de@bio-rad.com a

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M380414:210511'

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