

Datasheet: MCA6074PE

Description:	MOUSE ANTI HUMAN INTERLEUKIN-9:RPE
Specificity:	IL-9
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MH9A4
Isotype:	IgG2b
Quantity:	100 TESTS/0.5ml

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
Flow Cytometry (1)	▪			Neat

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.

(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.

Target Species	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)		
	0.2% Bovine Serum Albumin		
Immunogen	Baculovirus-expressed recombinant human interleukin-9		

**External Database
Links**

UniProt:

[P15248](#) [Related reagents](#)

Entrez Gene:

[3578](#) IL9 [Related reagents](#)

Specificity

Mouse anti Human interleukin-9 antibody, clone MH9A4 recognizes interleukin-9 (IL-9), also known as cytokine P40 and T cell growth factor P40.

IL-9 is a 14 kDa pro-inflammatory cytokine, secreted predominantly by T cells. Initially associated with the Th2 phenotype, IL-9 is now known to be secreted by other Th subsets including Th17. Through its interaction with the interleukin-9 receptor, and the downstream activation of STAT3, MAPK and PI3K pathways, IL-9 stimulates immune cell proliferation and inhibits apoptosis. IL-9 has long been recognized as an important mediator of asthma and the allergic response.

Flow Cytometry

Use 5ul of the suggested working dilution to label 1×10^6 cells in 100ul

References

1. Pang, N. *et al.* (2018) TGF- β /Smad signaling pathway positively up-regulates the differentiation of Interleukin-9-producing CD4+T cells in human *Echinococcus granulosus* infection. [J Infect. Jan 29 \[Epub ahead of print\].](#)

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6074PE>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:RPE \(MCA691PE\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)
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