



Datasheet: MCA1525A488

BATCH NUMBER 165417

Description:	RAT ANTI HUMAN INTERLEUKIN-4:Alexa Fluor® 488
Specificity:	IL-4
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	MP4-25D2
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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)	▪			NT - 1/10

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

Species Cross Reactivity

Reacts with: Rhesus Monkey

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to Alexa Fluor® 488 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®488	495	519

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)
Stabilisers	1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	Purified CHO cell expressed recombinant human IL-4.
External Database Links	<p>UniProt: P05112 Related reagents</p> <p>Entrez Gene: 3565 IL4 Related reagents</p>
Specificity	<p>Rat anti Human Interleukin-4 antibody, clone MP4-25D2 recognizes human Interleukin-4 (IL-4), also known as B-cell stimulatory factor 1, Binetrakin, Pitrakinra or Lymphocyte stimulatory factor 1. Interleukin-4 is a 153 amino acid ~17kDa cytokine involved in the activation of B cells, macrophages and monocytes (UniProt: P05112).</p> <p>Polymorphisms in the IL-4 gene are associated with susceptibility to, and outcome of ischemic stroke (Marousi et al. 2011).</p> <p>Rat anti Human Interleukin-4 antibody, clone MP4-25D2 is reported to neutralize IL-4 activity (Abrams et al. 1992 and Carvalho et al. 1994).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 1x10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Abrams, J.S. <i>et al.</i> (1992) Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 127: 5-24. 2. Carvalho, E.M. <i>et al.</i> (1994) Restoration of IFN-gamma production and lymphocyte proliferation in visceral leishmaniasis. J Immunol. 152 (12): 5949-56. 3. P, M. <i>et al.</i> (2004) Tumor-derived MUC1 mucins interact with differentiating monocytes and induce IL-10^{high}IL-12^{low} regulatory dendritic cell. J Immunol. 172 (12): 7341-9. 4. Raulf-Heimsoth, M. (2008) T cell - primary culture from peripheral blood. Methods Mol Med. 138: 17-30.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies

Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA1525A488>

Regulatory For research purposes only

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M423472:231017'

Printed on 09 Nov 2025

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)