

Datasheet: MCA2390A488

Description:	RAT ANTI MOUSE ER-MP54:Alexa Fluor® 488
Specificity:	ER-MP54
Other names:	MYELOID PRECURSOR ANTIGEN
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	ER-MP54
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)	▪			Neat - 1/5

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

Target Species	Mouse		
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		
Stabilisers	1% Bovine Serum Albumin		

Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	Balb/c macrophage precursor cell hybrids.
RRID	AB_872054
Fusion Partners	Cells from immunised rats were fused with cells of the rat Y3-Ag1.2.3 myeloma cell line.
Specificity	Rat anti Mouse ER-MP54 antibody, clone ER-MP54 recognizes a murine antigen designated ER-MP54. The ER-MP54 antigen is primarily expressed within myeloid precursor cells in the bone marrow. The antigen may be detected in immature macrophage precursors up to the monoblast stage of myeloid differentiation. Some cell lines have also been reported to express the ER-MP54 antigen at the cell surface.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Leenen, P.J.M. <i>et al.</i> (1990) Murine macrophage precursor characterization II. Monoclonal antibodies against macrophage precursor antigens. Eur J Immunol. 20:27 – 34. 2. Leenen, P.J. <i>et al.</i> (1994) Markers of mouse macrophage development detected by monoclonal antibodies. J Immunol Methods. 174 (1-2): 5-19. 3. Hung, S.I. <i>et al.</i> (2003) Transient expression of Ym1, a heparin-binding lectin, during developmental hematopoiesis and inflammation. J Leukoc Biol. 72: 72-82. 4. Wang, H. <i>et al.</i> (2009) Key role of macrophages in the pathogenesis of CD18 hypomorphic murine model of psoriasis. J Invest Dermatol. 129 (5): 1100-14.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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'M376034:210114'

Printed on 09 Feb 2021

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