

Datasheet: MCA1014FB

Description:	MOUSE ANTI MOUSE CD44:FITC
Specificity:	CD44
Other names:	H-CAM, PGP-1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	5035-41.1D
Isotype:	IgG1
Quantity:	0.5 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
Flow Cytometry	▪			1/10 - 1/50

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.

Target Species	Mouse						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml						

Immunogen	Spleen cells from B6PL-Ly-2a / Ly-3a B6-Ly-1a mice.
External Database Links	<p>UniProt: P15379 Related reagents</p> <p>Entrez Gene: 12505 Cd44 Related reagents</p>
Synonyms	Ly-24
RRID	AB_324004
Fusion Partners	Spleen cells from immunized mice were fused with cells of the mouse P3-NS1-1-Ag4 myeloma cell line.
Specificity	<p>Mouse anti Mouse CD44 antibody, clone 5035-41.1D recognizes human CD44, also known as Lymphocyte antigen 24, Extracellular matrix receptor III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Phagocytic glycoprotein I (PGP-1), Hermes antigen or Hyaluronate receptor. CD44 is found on >90% bone marrow cells and spleen cells, 56% of thymus cells and 90% of lymph node cells.</p> <p>Mouse anti Mouse CD44 antibody, clone 5035-41.1D recognizes the following strains of mice:- C57BL/6, C57BL/10, C57/L, C58A, AKR, 129, SJL, NZB, C3H, CE, CBA/H.</p>
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).</p>
References	<ol style="list-style-type: none"> 1. A, A. <i>et al.</i> (2001) Cell surface-expressed moesin-like receptor regulates T cell interactions with tissue components and binds an adhesion-modulating IL-2 peptide generated by elastase. J Immunol. 166 (5): 3052-60. 2. Qian, K. <i>et al.</i> (2015) Effects of Tanshinone IIA on osteogenic differentiation of mouse bone marrow mesenchymal stem cells. Naunyn Schmiedeberg's Arch Pharmacol. 388 (11): 1201-9.
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

**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

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