

Datasheet: MCA1014FB

BATCH NUMBER 162466

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	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 Stabilisers	0.09% Sodium Azide		
	1%	Bovine Serum Albumin	
Approx. Protein	IgG concentration 0.5 mg/ml		

Concentrations

Immunogen Spleen cells from B6PL-Ly-2a / Ly-3a B6-Ly-1a mice.

External Database Links

UniProt:

[P15379](#)

[Related reagents](#)

Entrez Gene:

[12505](#)

Cd44

[Related reagents](#)

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 **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.

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.

Flow Cytometry Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood.

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](#)).

References

1. A, A. *et al.* (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. *et al.* (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 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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/MCA1014FB>
10041

Regulatory

For research purposes only

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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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