

Datasheet: MCA74C

Description:	RAT ANTI MOUSE CD11b:RPE-Cy5
Specificity:	CD11b
Other names:	INTEGRIN ALPHA M CHAIN, MAC-1
Format:	RPE-CY5
Product Type:	Monoclonal Antibody
Clone:	M1/70.15
Isotype:	IgG2b
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	■			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.

Target Species	Mouse								
Species Cross Reactivity	Reacts with: Human, Rabbit N.B. Antibody reactivity and working conditions may vary between species.								
Product Form	Purified IgG conjugated to R. Phycoerythrin -Cy5 (RPE- Cy5) - 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>RPE-Cy5 488nm laser</td> <td>496</td> <td>667</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE-Cy5 488nm laser	496	667		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
RPE-Cy5 488nm laser	496	667							
Preparation	Purified IgG prepared from ascites or tissue culture supernatant								
Buffer Solution	Phosphate buffered saline								
Preservative	0.1% Sodium Azide (NaN ₃)								
Stabilisers	Sucrose								
Immunogen	T cell enriched splenocytes from B10 mice.								
External Database Links	UniProt: P05555 Related reagents								

Entrez Gene:

[16409](#) Itgam [Related reagents](#)

RRID

AB_321297

Fusion Partners

Spleen cells from immunised DA rats were fused with cells of the NS1/1.Ag4.1 mouse myeloma cell line.

Specificity

Rat anti Mouse CD11b antibody, clone M1/70.15 recognizes the murine CD11b cell surface antigen also known as the alpha M integrin chain or MAC-1, a differentiation antigen expressed by granulocytes, monocytes, NK cells and tissue macrophages.

The expression of CD11b increases during monocyte maturation and expression levels vary on tissue macrophages. Peritoneal macrophages are reported to express higher levels of CD11b than splenic macrophages.

Rat anti Mouse CD11b antibody, clone M1/70.15 has been reported to block iC3b binding to its receptor ([Beller *et al.* 1982](#)).

Rat anti Mouse CD11b antibody, clone M1/70.15 has been reported to as being suitable for use on PLP fixed paraffin embedded tissue but has not been tested for use on formalin fixed tissue ([Whiteland *et al.* 1995](#)).

This product is routinely tested in flow cytometry on mouse peritoneal macrophages.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically via the Fc region to cells expressing low affinity Fc receptors. Non-specific FcR binding may be reduced by using [SeroBlock FcR](#) reagent.

References

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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 until date of expiry. Please see product label.

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10331 available at:
10331: <https://www.bio-rad-antibodies.com/uploads/MSDS/10331.pdf>

Regulatory

For research purposes only

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