

Datasheet: MCA1773A647

BATCH NUMBER 171872

Description:	MOUSE ANTI RAT CD61:Alexa Fluor® 647
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	F11
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	▪			Neat - 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.

Target Species

Rat

Species Cross Reactivity

Reacts weakly with:Human

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® 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

Preparation

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

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	Bone cell suspension from SD rats.
RRID	AB_566857
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with the cells of the mouse X63-Ag8 myeloma cell line.
Specificity	<p>Mouse anti Rat CD61 antibody, clone F11 recognizes the rat CD61 cell surface antigen, also known as the integrin b3 chain.</p> <p>CD61 is expressed by platelets, megakaryocytes and osteoclasts. Clone F11 has been shown to inhibit the <i>in vitro</i> attachment of osteoclasts to various proteins including vitronectin, fibrinogen and von Willebrand Factor (Sick et al. 2009).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> Helfrich, M.H. <i>et al.</i> (1992) Integrins on rat osteoclasts: characterization of two monoclonal antibodies (F4 and F11) to rat beta 3. J Bone Miner Res. 7 (3): 345-51. Shankar, G. <i>et al.</i> (1993) Integrin receptor-mediated mobilisation of intranuclear calcium in rat osteoclasts. J Cell Sci. 105 (Pt 1): 61-8. Sick, E. <i>et al.</i> (2009) Activation of CD47 receptors causes histamine secretion from mast cells. Cell Mol Life Sci. 66: 1271-82. Wang, Z. <i>et al.</i> (2016) Microparticle levels after arterial injury and NO therapy in diabetes. J Surg Res. 200 (2): 722-31.
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. This product is photosensitive and should be protected from light.</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 purchase 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

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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA1773A647>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1209A647\)](#)

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
'M411441:221103'

Printed on 29 Jan 2026