

Datasheet: MCA5700A647

Description:	RAT ANTI MOUSE CLEC2:Alexa Fluor® 647
Specificity:	CLEC2
Other names:	CLEC1B
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	17D9
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 - 1/10

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	Mouse		
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	RBL-2H3 cells stably expressing HA-tagged mouse CLEC2.
External Database Links	<p>UniProt: Q9JL99 Related reagents</p> <p>Entrez Gene: 56760 Clec1b Related reagents</p>
Synonyms	Clec2
Fusion Partners	Spleen cells from immunised Wistar rats were fused with cells of the rat Y3 myeloma cell line.
Specificity	Rat anti Mouse CLEC2 antibody, clone 17D9 recognizes mouse C-type lectin domain family 1 member B, also known as CLEC2 or CLEC1B. CLEC2 acts as a receptor for rhodocytin, a platelet-aggregating protein found in snake venom. CLEC2 expression is not restricted to platelets and also acts as an activation receptor on neutrophils.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul
References	<ol style="list-style-type: none"> 1. Mourão-sá, D. <i>et al.</i> (2011) CLEC-2 signaling via Syk in myeloid cells can regulate inflammatory responses. Eur J Immunol. 41 (10): 3040-53. 2. Mori, J. <i>et al.</i> (2012) Dominant role of the protein-tyrosine phosphatase CD148 in regulating platelet activation relative to protein-tyrosine phosphatase-1B. Arterioscler Thromb Vasc Biol. 32 (12): 2956-65. 3. Lowe, K.L. <i>et al.</i> (2015) The expression of mouse CLEC-2 on leucocyte subsets varies according to their anatomical location and inflammatory state. Eur J Immunol. 45 (9): 2484-93. 4. Nakamura-Ishizu A <i>et al.</i> (2015) CLEC-2 in megakaryocytes is critical for maintenance of hematopoietic stem cells in the bone marrow. J Exp Med. 212(12):2133-46. 5. Meinders, M. <i>et al.</i> (2016) Repercussion of Megakaryocyte-Specific Gata1 Loss on Megakaryopoiesis and the Hematopoietic Precursor Compartment. PLoS One. 11 (5): e0154342.
Further Reading	1. Kerrigan, A.M. <i>et al.</i> (2009) CLEC-2 is a phagocytic activation receptor expressed on murine peripheral blood neutrophils. J Immunol. 182 (7): 4150-7.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. 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
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies

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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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