

Datasheet: MCA5700PE

Description:	RAT ANTI MOUSE CLEC2:RPE
Specificity:	CLEC2
Other names:	CLEC1B
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	17D9
Isotype:	IgG2b
Quantity:	100 TESTS

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

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 R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin 5% Sucrose		
Immunogen	RBL-2H3 cells stably expressing HA-tagged mouse CLEC2.		
External Database Links	UniProt:		
	Q9JL99	Related reagents	

Entrez Gene:

[56760](#) Clec1b [Related reagents](#)

Synonyms	Clec2
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Fusion Partners	Spleen cells from immunised Wistar rats were fused with cells of the rat Y3 myeloma cell line.
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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.
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Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
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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.
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Further Reading	<ol style="list-style-type: none">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.
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Storage	Prior to reconstitution store at +4°C. After reconstitution 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.
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Shelf Life	12 months from date of reconstitution.
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Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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