

# Datasheet: MCA5700F

**BATCH NUMBER 162748**

<b>Description:</b>	RAT ANTI MOUSE CLEC2:FITC
<b>Specificity:</b>	CLEC2
<b>Other names:</b>	CLEC1B
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	17D9
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.1 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence			▪	

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.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	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 <sub>3</sub> ) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1mg/ml
Immunogen	RBL-2H3 cells stably expressing HA-tagged mouse CLEC2.
External Database Links	<p><b>UniProt:</b>  <a href="#">Q9JL99</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">56760</a>    Clec1b    <a href="#">Related reagents</a></p>
Synonyms	Clec2
RRID	AB_11152598
Fusion Partners	Spleen cells from immunized Wistar rats were fused with cells of the rat Y3 myeloma cell line.
Specificity	<b>Rat anti Mouse CLEC2 antibody, clone 17D9</b> 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 1x10 <sup>6</sup> cells in 100ul.
References	<ol style="list-style-type: none"> <li>1. 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. <a href="#">Arterioscler Thromb Vasc Biol. 32 (12): 2956-65.</a></li> <li>2. 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. <a href="#">Eur J Immunol. 45 (9): 2484-93.</a></li> <li>3. Nakamura-Ishizu A <i>et al.</i> (2015) CLEC-2 in megakaryocytes is critical for maintenance of hematopoietic stem cells in the bone marrow. <a href="#">J Exp Med. 212(12):2133-46.</a></li> <li>4. Meinders, M. <i>et al.</i> (2016) Repercussion of Megakaryocyte-Specific Gata1 Loss on Megakaryopoiesis and the Hematopoietic Precursor Compartment. <a href="#">PLoS One. 11 (5): e0154342.</a></li> <li>5. Hansen, M. <i>et al.</i> (2020) The RNA-Binding Protein ATXN2 is Expressed during Megakaryopoiesis and May Control Timing of Gene Expression. <a href="#">Int J Mol Sci. 21 (3): 967.</a></li> <li>6. Kumode, T. <i>et al.</i> (2022) C-type lectin-like receptor 2 specifies a functionally distinct subpopulation within phenotypically defined hematopoietic stem cell population that contribute to emergent megakaryopoiesis. <a href="#">Int J Hematol. Feb 01 [Epub ahead of print].</a></li> </ol>
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.](#)

<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5700F10041">https://www.bio-rad-antibodies.com/SDS/MCA5700F10041</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

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

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)  
'M385904:210513'

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