

## Datasheet: MCA5700F

**BATCH NUMBER 170584**

<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>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml
<b>Immunogen</b>	RBL-2H3 cells stably expressing HA-tagged mouse CLEC2.
<b>External Database Links</b>	<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>
<b>Synonyms</b>	Clec2
<b>RRID</b>	AB_11152598
<b>Fusion Partners</b>	Spleen cells from immunized Wistar rats were fused with cells of the rat Y3 myeloma cell line.
<b>Specificity</b>	<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.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>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>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>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>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>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>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>
<b>Further Reading</b>	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** 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.

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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5700F>

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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 \(BUF041B\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
'M385904:210513'

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