

Datasheet: MCA911

**BATCH NUMBER 158453**

<b>Description:</b>	MOUSE ANTI HUMAN CD47
<b>Specificity:</b>	CD47
<b>Other names:</b>	SIRP LIGAND
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BRIC126
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.2 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	▪			1/10
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting (1)	▪			
Functional Assays (2)	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1) **BRIC126 recognizes CD47 under non-reducing conditions, the CD47 epitope recognized is lost on reduction, see [Shahein et al.](#) for details**

(2) **This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Dog, Bovine, Sheep, Pig <b>N.B.</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.

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<b>Product Form</b>	Purified IgG - liquid
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<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
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<b>Buffer Solution</b>	TRIS buffered glycine
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<b>Preservative Stabilisers</b>	0.09% Sodium Azide
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<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml
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<b>Immunogen</b>	Human erythrocytes
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q08722</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">961</a> CD47 <a href="#">Related reagents</a>
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<b>Synonyms</b>	MER6
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<b>RRID</b>	AB_321436
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<b>Specificity</b>	<b>Mouse anti human CD47 antibody, clone BRIC126</b> recognises the human CD47 cell surface glycoprotein, a heavily N-glycosylated 47-52 kDa molecule. CD47 is expressed on all cells and tissues so far examined, although expression is reduced on erythrocytes of the rare Rh null phenotype.
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Avent, N. <i>et al.</i> (1988) Monoclonal antibodies that recognize different membrane proteins that are deficient in Rhnull human erythrocytes. One group of antibodies reacts with a variety of cells and tissues whereas the other group is erythroid-specific. <a href="#">Biochem J. 251 (2): 499-505.</a></li><li>2. Ide, K. <i>et al.</i> (2007) Role for CD47-SIRPalpha signaling in xenograft rejection by macrophages. <a href="#">Proc Natl Acad Sci U S A. 104 (12): 5062-6.</a></li><li>3. Lecchi, C. <i>et al.</i> (2008) Bovine alpha-1 acid glycoprotein can reduce the chemotaxis of bovine monocytes and modulate CD18 expression. <a href="#">Vet Res. 39: 50.</a></li><li>4. Chao, M.P. <i>et al.</i> (2011) Therapeutic antibody targeting of CD47 eliminates human acute lymphoblastic leukemia. <a href="#">Cancer Res. 71 (4): 1374-84.</a></li><li>5. Shahein, Y.E. <i>et al.</i> (2002) Molecular cloning and functional characterization of the pig homologue of integrin-associated protein (IAP/CD47). <a href="#">Immunology. 106: 564-76.</a></li><li>6. Brooke, G. <i>et al.</i> (2004) Human lymphocytes interact directly with CD47 through a novel member of the signal regulatory protein (SIRP) family. <a href="#">J Immunol. 173: 2562-70.</a></li></ol>
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7. Wewer, C. *et al.* (2011) Transcellular migration of neutrophil granulocytes through the blood-cerebrospinal fluid barrier after infection with *Streptococcus suis*. [J Neuroinflammation. 8: 51.](#)
8. Ticchioni, M. *et al.* (2001) Integrin-associated protein (CD47/IAP) contributes to T cell arrest on inflammatory vascular endothelium under flow. [FASEB J. 15: 341-50.](#)
9. Chao, M.P. *et al.* (2010) Anti-CD47 antibody synergizes with rituximab to promote phagocytosis and eradicate non-Hodgkin lymphoma. [Cell. 142: 699-713.](#)
10. Siddhartha, J *et al.* (2016) Methods of manipulating phagocytosis mediated by CD47. [US patent app 15/054930](#)
11. Petrova, P.S. *et al.* (2017) TTI-621 (SIRPαFc): A CD47-Blocking Innate Immune Checkpoint Inhibitor with Broad Antitumor Activity and Minimal Erythrocyte Binding. [Clin Cancer Res. 23 \(4\): 1068-79.](#)

<b>Further Reading</b>	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39: 54.</a>
<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10072 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA911">https://www.bio-rad-antibodies.com/SDS/MCA911</a> 10072
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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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)

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