

Datasheet: MCA911T

BATCH NUMBER 155606

| | |
|----------------------|-----------------------|
| Description: | MOUSE ANTI HUMAN CD47 |
| Specificity: | CD47 |
| Other names: | SIRP LIGAND |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | BRIC126 |
| Isotype: | IgG2b |
| Quantity: | 25 µg |

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 | ▪ | | | 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. Our [Slide-A-Lyzer® Dialysis Cassette \(EQU003\)](#) is recommended suitable for this purpose.**

Target Species

Human

Species Cross Reactivity

Reacts with: Dog, Bovine, Sheep, Pig

N.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.

| | |
|---------------------------------------|--|
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| Buffer Solution | TRIS buffered glycine |
| Preservative Stabilisers | 0.09% Sodium Azide |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | Human erythrocytes |
| External Database Links | UniProt: Q08722 Related reagents Entrez Gene: 961 CD47 Related reagents |
| Synonyms | MER6 |
| RRID | AB_1102099 |
| Specificity | Mouse anti human CD47 antibody, clone BRIC126 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. |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | <ol style="list-style-type: none">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. Biochem J. 251 (2): 499-505.2. Ide, K. <i>et al.</i> (2007) Role for CD47-SIRPalpha signaling in xenograft rejection by macrophages. Proc Natl Acad Sci U S A. 104 (12): 5062-6.3. Lecchi, C. <i>et al.</i> (2008) Bovine alpha-1 acid glycoprotein can reduce the chemotaxis of bovine monocytes and modulate CD18 expression. Vet Res. 39: 50.4. Chao, M.P. <i>et al.</i> (2011) Therapeutic antibody targeting of CD47 eliminates human acute lymphoblastic leukemia. Cancer Res. 71 (4): 1374-84.5. Shahein, Y.E. <i>et al.</i> (2002) Molecular cloning and functional characterization of the pig homologue of integrin-associated protein (IAP/CD47). Immunology. 106: 564-76.6. Brooke, G. <i>et al.</i> (2004) Human lymphocytes interact directly with CD47 through a novel |

- member of the signal regulatory protein (SIRP) family. [J Immunol. 173: 2562-70.](#)
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.](#)

Further Reading 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10072 available at: <https://www.bio-rad-antibodies.com/SDS/MCA911T>
10072

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

- | | |
|---|---|
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos. , HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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