

Datasheet: MCA2345A647

| Description:  | RAT ANTI MOUSE CD26:Alexa Fluor® 647 |
|---------------|--------------------------------------|
| Specificity:  | CD26                                 |
| Other names:  | THAM                                 |
| Format:       | ALEXA FLUOR® 647                     |
| Product Type: | Monoclonal Antibody                  |
| Clone:        | H207-1082                            |
| Isotype:      | IgG2a                                |
| Quantity:     | 100 TESTS/1ml                        |
|               |                                      |

## **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry |     |    |                | Neat - 1/5         |

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 conjugate            | ed to Alexa Fluor® 64 | 7 - liquid         |
| Max Ex/Em                         | Fluorophore                       | Excitation Max (nm)   | Emission Max (nm   |
|                                   | Alexa Fluor®647                   | 650                   | 665                |
| Preparation                       | Purified IgG prepared supernatant |                       | raphy on Protein G |
| Buffer Solution                   | Phosphate buffered sa             | aline                 |                    |
| Preservative                      | 0.09% sodium azide (l             | NaN <sub>3</sub> )    |                    |
| Stabilisers                       | 1% bovine serum albu              | ımin                  |                    |
| Approx. Protein<br>Concentrations | IgG concentration 0.0             | 5 mg/ml               |                    |

| External Database<br>Links | UniProt:  |  |  |  |  |
|----------------------------|---|--|--|--|--|
|                            | P28843 Related reagents   |  |  |  |  |
|                            | Entrez Gene:  |  |  |  |  |
|                            | 13482 Dpp4 Related reagents   |  |  |  |  |
| Synonyms                   | Cd26  |  |  |  |  |
| RRID                       | AB_609589   |  |  |  |  |
| Specificity                | Rat anti Mouse CD26 antibody, clone H207-1082 recognizes mouse CD26, which is also known as thymocyte-activating molecule (THAM). Murine CD26 is a type II integral membrane dipeptidyl-peptidase that is expressed at the cell surface as a heterodimer, of approximately 220 kDa, and has a soluble form in the plasma.   |  |  |  |  |
|                            | The CD26 molecule is a multifunctional glycoprotein that has ectopeptidase activity and is also reported to be involved in cell adhesion, signal transduction in T lymphocytes and HIV infection. CD26 is differentially expressed on developing thymocytes and is upregulated on activated T-cells but is not expressed on resting and thioglycollate stimulated macrophages. Expression of CD26 has also been reported on cells from a variety of non-haematopoietic tissues including liver, intestine and kidney. |  |  |  |  |
| Flow Cytometry             | Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl.  The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/BUF041B).   |  |  |  |  |
| References                 | <ol> <li>David, F. et al. (1993) Identification of serine 624, aspartic acid 702, and histidine 734 as the catalytic triad residues of mouse dipeptidyl-peptidase IV (CD26). A member of a novel family of nonclassical serine hydrolases. <u>J Biol Chem. 268:17247-52.</u></li> <li>Marguet, D. et al. (2000) Enhanced insulin secretion and improved glucose tolerance in mice lacking CD26. <u>Proc Natl Acad Sci U S A. 97:6874-9.</u></li> </ol>  |  |  |  |  |
| Further Reading            | 1. Vivier, I. <i>et al.</i> (1991) Evidence that thymocyte-activating molecule is mouse CD26 (dipeptidyl peptidase IV). <u>J Immunol. 147 (2): 447-54.</u>  |  |  |  |  |
| 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  |  |  |  |  |

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.

# 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/MCA2345A647

10041

Regulatory For research purposes only

## Related Products

#### **Recommended Negative Controls**

RAT IgG2a NEGATIVE CONTROL: Alexa Fluor® 647 (MCA1212A647)

# **Recommended Useful Reagents**

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

America

Email: antibody\_sales\_us@bio-rad.com

Email: antibody\_sales\_uk@bio-rad.com

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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