

## Datasheet: MCA2345A647T

<b>Description:</b>	RAT ANTI MOUSE CD26:Alexa Fluor® 647
<b>Specificity:</b>	CD26
<b>Other names:</b>	THAM
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	H207-1082
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	25 TESTS/0.25ml

## 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 - 1/5

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - 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>Alexa Fluor®647</td> <td>650</td> <td>665</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665
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Alexa Fluor®647	650	665					
<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</b>	0.09% Sodium Azide						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml						
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P28843</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">13482</a> Dpp4   <a href="#">Related reagents</a></p>						

<b>Synonyms</b>	Cd26
<b>Specificity</b>	<p><b>Rat anti Mouse CD26 antibody, clone H207-1082</b> 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.</p> <p>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.</p>
<b>Flow Cytometry</b>	<p>Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/B</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>David, F. <i>et al.</i> (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. <a href="#">J Biol Chem. 268:17247-52.</a></li> <li>Marguet, D. <i>et al.</i> (2000) Enhanced insulin secretion and improved glucose tolerance in mice lacking CD26. <a href="#">Proc Natl Acad Sci U S A. 97:6874-9.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Vivier, I. <i>et al.</i> (1991) Evidence that thymocyte-activating molecule is mouse CD26 (dipeptidyl peptidase IV). <a href="#">J. Immunol. 147:447-54.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Shelf Life</b>	18 months from date of despatch.
<b>Acknowledgements</b>	<p>This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a></p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a></p>

## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1212A647\)](#)

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