

## Datasheet: MCA2345B

<b>Description:</b>	RAT ANTI MOUSE CD26:Biotin
<b>Specificity:</b>	CD26
<b>Other names:</b>	THAM
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	H207-1082
<b>Isotype:</b>	IgG2a
<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

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 Biotin - liquid
<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 0.1 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>	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.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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 ([BUF041A/B](#)).

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**References**

1. 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. [J Biol Chem. 268:17247-52.](#)
2. Marguet, D. *et al.* (2000) Enhanced insulin secretion and improved glucose tolerance in mice lacking CD26. [Proc Natl Acad Sci U S A. 97:6874-9.](#)

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**Further Reading**

1. Vivier, I. *et al.* (1991) Evidence that thymocyte-activating molecule is mouse CD26 (dipeptidyl peptidase IV). [J. Immunol. 147:447-54.](#)

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**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.

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**Shelf Life** 18 months from date of despatch.

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

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**Regulatory** For research purposes only

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'M287382:160607'

**Printed on 05 May 2018**

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