

## Datasheet: MCA2345

<b>Description:</b>	RAT ANTI MOUSE CD26
<b>Specificity:</b>	CD26
<b>Other names:</b>	THAM
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	H207-1082
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.25 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	■			1/50 - 1/100
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation			■	
Western Blotting			■	

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 - 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 Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P28843</a> <a href="#">Related reagents</a>

**Entrez Gene:**[13482](#) Dpp4 [Related reagents](#)**Synonyms**

Cd26

**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 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.**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.](#)

**Further Reading**

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

**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.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#)

Goat Anti Rat IgG (STAR131...) [Alk. Phos.](#), [Biotin](#)

Goat Anti Rat IgG (STAR69...) [FITC](#)

Goat Anti Rat IgG (STAR72...) [HRP](#)

## Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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