

## Datasheet: MCA1317

**BATCH NUMBER 0512R**

<b>Description:</b>	MOUSE ANTI HUMAN CD26
<b>Specificity:</b>	CD26
<b>Other names:</b>	DPP4
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	M-A261
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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 (1)	■			
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. 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)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Human T-cell leukemia cells (T-CLL)
External Database Links	<p><b>UniProt:</b>  <a href="#">P27487</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1803</a>    DPP4    <a href="#">Related reagents</a></p>
Synonyms	ADCP2, CD26
RRID	AB_321550
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line
Specificity	<p><b>Mouse anti Human CD26 antibody, clone M-A261</b>, recognizes human dipeptidyl peptidase 4, also known as adenosine deaminase complexing protein 2, CD26, TP103, ADABP or DPP IV. CD26 is a 766 amino acid ~110 kDa single pass type II transmembrane glycoprotein expressed by activated T cells, B cells and macrophages. A soluble form of CD26 can be derived by cleavage of the membrane bound form between residues 38-39 (<a href="#">Uniprot: 27487</a>).</p> <p>CD26 acts as a functional receptor for the pathogenic Middle East respiratory syndrome coronavirus [MERS-CoV] (<a href="#">Raj et al. 2014</a>), a severe and frequently fatal disease in humans and marmosets sharing identical CD26 sequence at the site of interaction with the MERS-CoV spike protein (<a href="#">Lu et al. 2013</a>, <a href="#">Wang et al. 2013</a>).</p> <p>Mouse anti Human CD26 antibody, clone M-A261 has been used successfully for the immunohistochemical detection of CD26 on formalin fixed, paraffin embedded tissues and the demonstration of elevated CD26 expression in thyroid neoplasia (<a href="#">Kholová et al. 2003</a>). Mouse anti Human CD26 antibody, clone M-A261 has also been used for the immunohistochemical detection of CD26 on cryostat sections using both immunoperoxidase and immunofluorescence staining in liver biopsies from NASH patients (<a href="#">Balaban et al. 2007</a>).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood
Histology Positive	Thymus

## References

1. Berg, L.P. *et al.* (2002) Functional consequences of noncognate interactions between CD4+ memory T lymphocytes and the endothelium. [J Immunol. 168 \(7\): 3227-34.](#)
2. Post, S. *et al.* (2010) Impaired recruitment of HHT-1 mononuclear cells to the ischaemic heart is due to an altered CXCR4/CD26 balance. [Cardiovasc Res. 85: 494-502.](#)
3. Balaban, Y.H. *et al.* (2007) Dipeptidyl peptidase IV (DDP IV) in NASH patients. [Ann Hepatol. 6: 242-50.](#)
4. Krijnen, P.A. *et al.* (2012) Loss of DPP4 activity is related to a prothrombogenic status of endothelial cells: implications for the coronary microvasculature of myocardial infarction patients. [Basic Res Cardiol. 107: 233.](#)
5. Kholová, I. *et al.* (2003) Immunohistochemical detection of dipeptidyl peptidase IV (CD 26) in thyroid neoplasia using biotinylated tyramine amplification. [Neoplasma. 50: 159-64.](#)
6. Lutz, M.S. and Burk, R.D. (2006) Primary cilium formation requires von hippel-lindau gene function in renal-derived cells. [Cancer Res. 66: 6903-7.](#)
7. James, M.J. (2003) Anergic T cells exert antigen-independent inhibition of cell-cell interactions via chemokine metabolism. [Blood. 102: 2173-9.](#)
8. Snooks, M.J. *et al.* (2008) Vectorial entry and release of hepatitis A virus in polarized human hepatocytes. [J Virol. 82: 8733-42.](#)
9. Sun, A.L. *et al.* (2012) Dipeptidyl peptidase-IV is a potential molecular biomarker in diabetic kidney disease. [Diab Vasc Dis Res. 9: 301-8.](#)
10. Le Naour, F. *et al.* (2006) Profiling of the tetraspanin web of human colon cancer cells. [Mol Cell Proteomics. 5: 845-57.](#)
11. Akilov, O.E. *et al.* (2012) Resistance of Sézary cells to TNF- $\alpha$ -induced apoptosis is mediated in part by a loss of TNFR1 and a high level of the IER3 expression. [Exp Dermatol. 21: 287-92.](#)

## 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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1317>  
10040

## Regulatory

For research purposes only

## Related Products

## Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376	<b>Worldwide</b>	Tel: +44 (0)1865 852 700	<b>Europe</b>	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
	Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>		Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>		Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M365128:200529'

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