

Datasheet: MCA1317PE

Description:	MOUSE ANTI HUMAN CD26:RPE
Specificity:	CD26
Other names:	DPP4
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	M-A261
Isotype:	IgG1
Quantity:	100 TESTS

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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat

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	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
	5% Sucrose		
Immunogen	Human T-cell leukemia cells (T-CLL)		
External Database Links	UniProt:		
	P27487	Related reagents	

Entrez Gene:

[1803](#) DPP4 [Related reagents](#)

Synonyms ADCP2, CD26

RRID AB_321552

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line

Specificity **Mouse anti Human CD26 antibody, clone M-A261**, 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 ([Uniprot: 27487](#)).

CD26 acts as a functional receptor for the pathogenic Middle East respiratory syndrome coronavirus [MERS-CoV] ([Raj et al. 2014](#)), 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 ([Lu et al. 2013](#), [Wang et al. 2013](#)).

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 ([Kholová et al. 2003](#)). 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 ([Balaban et al. 2007](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood

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- 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- α -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

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #10075 available at:
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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