

Datasheet: MCA924R

Description:	MOUSE ANTI RAT CD26
Specificity:	CD26
Other names:	DPP4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-61
Isotype:	IgG2a
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/100 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Immunofluorescence	▪			

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.

Target Species	Rat
Product Form	Purified IgG - liquid
Preparation	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 1.0 mg/ml
Immunogen	110 kDa membrane glycoprotein

**External Database
Links**

UniProt:

[P14740](#) [Related reagents](#)

Entrez Gene:

[25253](#) Dpp4 [Related reagents](#)

Synonyms

Cd26

RRID

AB_2277408

Fusion Partners

Spleen cells from immunised mice were fused with cells of the PS-NSI/1Ag4-1 mouse myeloma cell line.

Specificity

Mouse anti Rat CD26 antibody, clone OX-61 recognizes CD26, rat liver antigen dipeptidyl peptidase IV. Reacts with liver bile canicular domains and brush borders of bile ducts. It also recognizes other epithelial brush borders such as a kidney and intestine, MRC OX-61 recognizes T lymphocytes and some B lymphocytes.

Mouse anti Rat CD26 antibody, clone OX-61 has been reported as being suitable for use in Western blotting ([McCaughan *et al.* 1990](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. Method sheets available on request.

References

1. McCaughan, G.W. *et al.* (1990) Identification of the bile canicular cell surface molecule GP110 as the ectopeptidase dipeptidyl peptidase IV: an analysis by tissue distribution, purification and N-terminal amino acid sequence. [Hepatology. 11 \(4\): 534-44.](#)
2. Cohen, D. *et al.* (2004) Par-1 promotes a hepatic mode of apical protein trafficking in MDCK cells. [Proc Natl Acad Sci U S A. 101 \(38\): 13792-7.](#)
3. Korom S *et al.* (1997) Inhibition of CD26/dipeptidyl peptidase IV activity *in vivo* prolongs cardiac allograft survival in rat recipients. [Transplantation. 63 \(10\): 1495-500.](#)
4. Kraml J *et al.* (2003) Glucocorticoid agonistic and antagonistic effects of mifepristone and onapristone on thymocyte subset composition and CD26/dipeptidyl peptidase IV activity in infant male rats. [J Steroid Biochem Mol Biol. 87 \(1\): 85-96.](#)
5. Cohen D *et al.* (2007) Par1b promotes hepatic-type lumen polarity in Madin Darby canine kidney cells via myosin II- and E-cadherin-dependent signaling. [Mol Biol Cell. 18 \(6\): 2203-15.](#)
6. László, V. *et al.* (2008) Triiodothyronine accelerates differentiation of rat liver progenitor cells into hepatocytes. [Histochem Cell Biol. 130 \(5\): 1005-14.](#)
7. Skripuletz T *et al.* (2007) Dose-dependent recruitment of CD25+ and CD26+ T cells in a novel F344 rat model of asthma. [Am J Physiol Lung Cell Mol Physiol. 292 \(6\): L1564-71.](#)
8. Molina-Jijón E *et al.* (2015) All-trans retinoic acid prevents oxidative stress-induced loss of renal tight junction proteins in type-1 diabetic model. [J Nutr Biochem. 26 \(5\): 441-54.](#)
9. Trujillo, J. *et al.* (2016) Curcumin prevents cisplatin-induced decrease in the tight and adherens junctions: relation to oxidative stress. [Food Funct. 7 \(1\): 279-93.](#)
10. Paku, S. *et al.* (2004) 2-acetylaminofluorene dose-dependent differentiation of rat oval cells into hepatocytes: confocal and electron microscopic studies. [Hepatology. 39 \(5\): 1353-61.](#)
11. Santoyo-Sánchez MP *et al.* (2013) Impaired endocytosis in proximal tubule from subchronic exposure to cadmium involves angiotensin II type 1 and cubilin receptors. [BMC Nephrol. 14: 211.](#)
12. Molina-Jijón, E. *et al.* (2017) Aldosterone signaling regulates the over-expression of claudin-4 and -8 at the distal nephron from type 1 diabetic rats. [PLoS One. 12 \(5\): e0177362.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA1210\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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