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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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Technically
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CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Rat CD26
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL061AP	Purified	250µg	1.0 mg/ml	CLCMG2A00
CL061B/-5	Biotin	100µg/500µg	0.1 mg/ml	CLCMG2A15
CL061F/-5	FITC	100µg/500µg	0.1 mg/ml	CLCMG2A01
CL061PE/-4	PE	50µg/200µg	0.1 mg/ml	CLCMG2A04

Isotype: Mouse IgG2a

DESCRIPTION:

Cedarlane's Anti-Rat CD26 monoclonal antibody (Clone: OX-61) recognizes and binds to the enzyme dipeptidyl peptidase IV (DPP-IV) present on rat thoracic duct lymphocytes and rat liver cells. The ectoenzyme DPP-IV is a bile canalicular cell surface molecule that has widespread tissue distribution. DPP-IV activity is specifically depleted from solubilized liver homogenates by CD26 bound to Sepharose. Under reducing conditions, the molecular weight of CD26 is 110kD. This antibody is the rat equivalent of human CD26. The N-terminal amino acid sequence of CD26 was sequenced and indicated identity with part of the predicted N-terminus of the bile canalicular molecule GP110. The cloning of DPP-IV permitted a comparison between the molecule recognized by monoclonal antibody CD26, GP110, and DPP-IV. It has been concluded that these three molecules are almost certainly identical.

This antibody is suitable for use in flow cytometry. This clone has also been reported to work in immunohistochemistry (cryostat sections), Western Blotting and immunoprecipitation.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin, FITC and PE: Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified, Biotin and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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SPECIFICATIONS:

Clone: OX-61

Hybridoma Production:

Immunization:

Immunogen: Thoracic duct lymphocytes from a mesenteric lymphodectomised rat.

Donor: BALB/c mouse spleen

Fusion Partner: P3-NSI/1 Ag4-1

Specificity: Rat CD26

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Fischer

Cell Concentration: 1×10^6 cells per test

Antibody Concentration Used: $1.0 \mu\text{g}/10^6$ cells

Cell Source

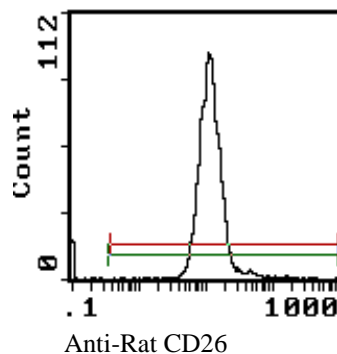
Percentage of cells stained above control:

Thymus

98.0%

Spleen

77.8%



Cell Source: Thymus

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. McCaughan, G.W., Wickson, J.E., Creswick, P.F., Gorrell, M.D., 1990. Identification of the Bile Canalicular Cell Surface Molecule CP110 as the Ectopeptidase Dipeptidyl Peptidase IV: An Analysis by Tissue Distribution, Purification and N-Terminal Amino Acid Sequence. *Hepatology*; 11:534
2. Sandhu, J.S., Petkov, P.M., Dabeva, M.D., Shafritz, D.A. 2001. Stem Cell Properties and Repopulation of the Rat Liver by Fetal Liver Epithelial Progenitor Cells. *Am. J. Pathol.* 159: 1323-1334.
3. Cohen, D., Boulan, E., Musch, A. 2004. Par-1 promotes a hepatic mode of apical protein trafficking in MDCK cells. *PNAS.* 101(38): 13792-13797.

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