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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

FITC Anti-Rat CD26 Monoclonal Antibody

CL061F
CL061F-5
LOT: 6131

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 product is suitable for use in flow cytometry.

PRESENTATION:
100 µg (CL061F) or 500 µg (CL061F-5) FITC conjugated IgG buffered in PBS, 0.02% NaN_3, and EIA grade BSA as a stabilizing protein to bring the total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:
Store at 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles and prolonged exposure to light.

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
Ig Class: Mouse IgG2a
Format: FITC conjugated IgG buffered in PBS, 0.02% NaN_3 and EIA grade BSA as a stabilizing protein to bring the total protein concentration to 4-5 mg/ml.
Antibody Concentration: 0.1 mg/ml

Continued Overleaf…

For more information or to place an order please contact...
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or visit our website for a list of our international distributors including contact information
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FLOW CYTOMETRY ANALYSIS:

1. Prepare cell suspension in Media A. For cell preparations, deplete the red blood cell population with Lympholyte®-R cell separation medium (CL5040).
2. Wash 2 times.
3. Resuspend the cells to a concentration of $2x10^7$ cells/ml in Media A. Add 50 ul of this suspension to each tube (each tube will then contain 1×10^6 cells representing 1 test).
4. To each tube add 0.5µg* of **CL061F or CL061F-5** per 10^6 cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C. (It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.)
7. Wash 2 times at 4˚C.
8. Resuspend the cell pellet in 50 µl ice cold Media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in phosphate buffered saline. (This stains dead cells by intercalating DNA).

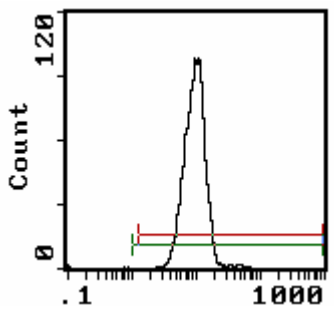
Media:

A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:
Rat Strain: WistAr
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: $0.5µg/10^6$ cells
Isotypic Control: FITC Mouse IgG2a (CLCMG2A01)

Cell Source	Percentage of cells stained above control:
Thymus	99.5%
Spleen	67.7%



Cell Source: Thymus
Percentage of cells stained above control: 99.5 %

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

FOR RESEARCH USE ONLY

JCr 10/5/06