SP6223CP
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DFF40 / CAD / DFFB (314-329) Control Peptide

Alternate names: Caspase-activated DNase, DFF-40, DFF2, CPAN, DNA fragmentation factor subunit beta, DNA fragmentation factor 40 kDa subunit, Caspase-activated deoxyribonuclease, Caspase-activated DNase, Caspase-activated nuclease

Catalog No.: SP6223CP

Quantity: 50 µg

Concentration: 1 mg/ml

Background: Alpha 4 integrin, which helps to mediate cell-cell and cell-matrix interactions. It combines with beta 1 and beta 7integrin to form VLA-4 and LPAM-1 (Peyers patch homing receptor) respectively. VLA-4 is expressed on most peripheral lymphocytes, thymocytes and monocytes. LPAM-1 is found on peripheral lymphocytes, but few thymocytes. Fibronectin and VCAM-1 act as ligands for both VLA-4 and LPAM-1. LPAM-1 also binds the mucosal vascular addressin MAdCAM-1. (1)

Immunogen: Peyers Patch HEV binding lymphoma line (TK1)

Format:
State: Liquid
Purification: Protein G affinity purified immunoglobulin fraction
Buffer System: PBS buffer with 0.02% sodium azide as preservative

Applications:
Flow cytometry (see protocol).
Immunoprecipitation.
Immunohistochemistry on frozen sections.
Functional assays.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody reacts with alpha 4 integrin.
Species: Mouse.
Others not tested.

Storage: Store the antibody at 2-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch.

General References:
1) Berlin, C., E. L. Berg, M. J. Briskin, D. P. Andrew, P. J. Kilshaw, B. Holzmann, I. L. Weissman, A. Hamann, E.C. Butcher 1993. □4□7 integrin mediates lymphocyte binding to the mucosal vascular addressin MAdCam-1. Cell 704:185-195
2) Holzmann, B., I.. L. Weissman 1989. Peyer's patch-specific lymphocyte homing receptors consist of a VLA-4 like alpha chain associated with either of two integrin beta chains, one of which is novel. EMBO 8:1736-1741
3) Holzmann, B., B. W. McIntyre, I. W. Weissman 1989. Identification of a murine Peyer's patch-specific lymphocyte homing receptor as an integrin molecule with an alpha chain homologous to human VLA-4alpha. Cell 56:37-46

Protocols:

FLOW CYTOMETRY ANALYSIS:

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1x10e6 cells, representing 1 test).
4. To each tube, add 0.5-1.0 µg* of CL030P.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
7. Wash 2 times at 4°C.
8. Add 100 µl of secondary antibody (FITC Goat anti-rat IgG (H+L)) at a 1/500 dilution.
9. Incubate the tubes at 4°C for 30-60 minutes.
(It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C in media B.
11. Resuspend the cell pellet in 50 µl ice cold media B.
12. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in 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).

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