

Product datasheet for CL030RX

Itga4 Rat Monoclonal Antibody [Clone ID: R1-2]

Product data:

Product Type: Primary Antibodies Clone Name: R1-2 FC **Applications:** Flow Cytometry (See Protocols). **Recommended Dilution:** This clone is also reportded to work in **Immunoprecipitation** and **Immunohistochemistry**. (1, 2, 3)**Reactivity:** Mouse Host: Rat lgG2b Isotype: Monoclonal **Clonality:** Peyers Patch HEV binding lymphoma line (TK1). Immunogen: Donor: Fisher Spleen. Fusion Partner: P3x63Ag8.653. Specificity: This CD49d Monoclonal Antibody reacts with Alpha-4 integrin (CD49d/ITGA4). Formulation: PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: PE State: Liquid purified Ig fraction **Concentration:** lot specific **Purification:** Protein G Chromatography **Conjugation:** ΡE Storage: Store the antibody undiluted at 2-8°C. **DO NOT FREEZE!** This product is photosensitive and should be protected from light. Stability: Shelf life: one year from despatch. Gene Name: integrin alpha 4 Database Link: Entrez Gene 16401 Mouse Q00651



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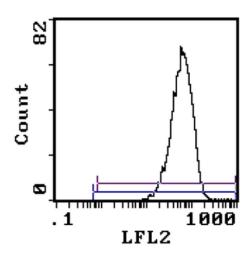
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Background:	CD49d helps to mediate cell-cell and cell-matrix interactions. Alpha-4 integrin combines with b1 and b7 integrin to form VLA-4 and LPAM-1 (Peyers patch homing receptor) respectively. VLA-4 is expressed on most peripheral lymphocytes, thymocytes 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)
Synonyms:	Integrin alpha-4, Integrin alpha-IV, VLA-4, VLA4
Note:	 Protocol: Flow Cytometry Analysis: Method: Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium. Wash 2 times. 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 1x106 cells, representing 1 test). To each tube, add ~1.0 µg* of CL030R or CL030RX. Vortex the tubes to ensure thorough mixing of antibody and cells. 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). Wash 2 times at 4°C. Resuspend the cell pellet in 50 µl ice cold media B. 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).
	Results:Tissue Distribution by Flow Cytometry Analysis:Mouse Strain: BALB/cCell Concentration : 1x10e6 cells per testAntibody Concentration Used: 1.0 μg/106 cellsIsotypic Control: PE Rat IgG2bCell Source Percentage of cells stained above centrol:
	<u>Cell Source Percentage of cells stained above control</u> : TK1 cell line: 100% Thymus: 93.5% Spleen: 92.7%

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<u>Strain Distibution:</u> Cell Concentration: 1x10e6 cells per test Antibody Concentration Used: 1.0 μg/10e6 cells Strains Tested: BALB/c, C57BL/6, C3H/He, CBA/J, AKR Positive: BALB/c, C57BL/6, C3H/He, CBA/J, AKR Negative: None.

Product images:



Cell Source: TK1 cell line. Percentage of cells stained above control: 100%

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