

Product datasheet for CL030P

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

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Clone Name:	R1-2
Applications:	FC, FN, IHC, IP
Recommended Dilution:	Flow cytometry (see protocol). Immunoprecipitation. Immunohistochemistry on frozen sections. Functional assays.
Reactivity:	Mouse
Host:	Rat
lsotype:	lgG2b
Clonality:	Monoclonal
Immunogen:	Peyers Patch HEV binding lymphoma line (TK1)
Specificity:	This antibody reacts with alpha 4 integrin.
Formulation:	PBS buffer with 0.02% sodium azide as preservative State: Purified State: Liquid
Concentration:	lot specific
Purification:	Protein G affinity purified immunoglobulin fraction
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	integrin alpha 4
Database Link:	<u>Entrez Gene 16401 Mouse</u> <u>Q00651</u>



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	ltga4 Rat Monoclonal Antibody [Clone ID: R1-2] – CL030P
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)
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 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 1x10e6 cells, representing 1 test). To each tube, add 0.5-1.0 µg* of CL030P. Vortex the tubes to ensure thorough mixing of antibody and cells. Incubate the tubes for 30 minutes at 4°C. Wash 2 times at 4°C. Add 100 µl of secondary antibody (FITC Goat anti-rat IgG (H+L)) at a 1/500 dilution. 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). Wash 2 times at 4°C in media B. 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.
	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.

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