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Product datasheet for AM08074PU-N

Itgb7 Rat Monoclonal Antibody [Clone ID: DATK32]

Product data:

Product Type:	Primary Antibodies
Clone Name:	DATK32
Applications:	FC, FN, IHC
Recommended Dilution:	**Flow Cytometry:** ≤ 1 µg/10^6 cells. (Ref.1-4) **Immunohistochemistry on Frozen Sections.** (Ref.3) **Induction of homotypic cellular aggregation.**(Ref.1) **Blockade of binding to cell adhesion molecules.**(Ref.1)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	AKR/Cum mouse spontaneous T lymphoma cell line TK1. (Ref.1)
Specificity:	This antibody is specific to mouse LPAM1 (Integrin alpha 4 beta 7). It recognises a conformational epitope on the heterodimer.
Formulation:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin beta 7
Database Link:	Entrez Gene 16421 Mouse P26011

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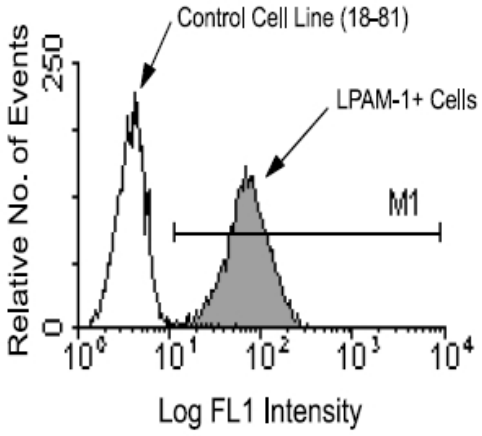
Background: The lymphocyte Peyer's patch adhesion molecule (LPAM-1), also known as Integrin alpha 4 beta 7 is a member of the integrin family of cell surface receptors. It is expressed primarily on mucosal lymphocytes, but is also present on NK cells and eosinophils. The alpha 4 beta 7 heterodimer mediates the binding of lymphocytes to its ligand, mucosal vascular addressin (MAdCAM1) on the high endothelial venules, thereby directing the homing of lymphocytes into Peyer's patches and intestinal lamina propria. (Ref.1-4)

Synonyms: Integrin beta-P, M290 IEL antigen, ITGB7, LPAM-1, LPAM1

Product images:



Immunofluorescent Staining: Either the TK-1 cell line (LPAM-1 expressing) or the 18-81 MuLV-transformed pre-B cell line (LPAM-1 negative) was labeled with Rat anti-Mouse LPAM-1 and then stained with Goat anti-Rat IgG-FITC. The primary cell populations on each scatter plot were then gated and analyzed by flow cytometry. Amount Used: 1 Ã?ug/10e6 cells.