

## Product datasheet for **AM08074RP-S**

### **Itgb7 Rat Monoclonal Antibody [Clone ID: DATK32]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	DATK32
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> < / = 0.1 µg/10e6 cells. (Ref.1-4)
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:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE State: Liquid purified Ig fraction. Label: R-Phycoerythrin
Concentration:	lot specific
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin beta 7
Database Link:	<a href="#">Entrez Gene 16421 Mouse P26011</a>



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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)

The Monoclonal antibody DATK32 has been shown to be useful for studies of the induction of homotypic cellular aggregation and the blockade of binding to cell adhesion molecules. (Ref.1)

**Synonyms:**

Integrin alpha-4/beta-7, Integrin alpha 4, Integrin beta 7, ITGA4, ITGB7, LPAM1, CD49d, VLA-4