

## PE Anti-Mouse LPAM-1 Antibody[DATK32]

Catalog Number: AN00563D

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2a, $\kappa$
<b>Clone No.</b>	DATK32
<b>Isotype Control</b>	PE Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832D]
<b>Conjugation</b>	PE
<b>Conjugation Information</b>	PE is designed to be excited by the Blue (488 nm), Green (532 nm) and Yellow-Green (561 nm) lasers and detected using an optical filter centered near 575 nm (e.g., a 585/42 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

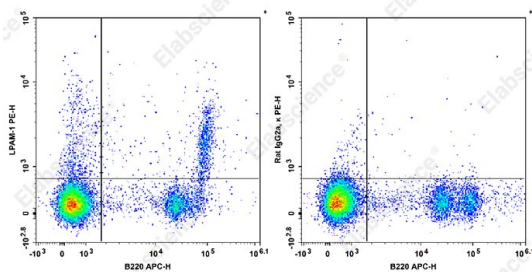
### Applications

FCM

### Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. **The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood).** Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

### Data



Staining of C57BL/6 murine splenocytes cells with APC Anti-Mouse B220 Antibody and PE Anti-Mouse LPAM-1 Antibody[DATK32] (left) or PE Rat IgG2a,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	$\alpha 4\beta 7$ Integrin;CD49d/ $\beta 7$ ;LPAM-1;ITGA4;ITGB7
<b>Uniprot ID</b>	P26011;Q00651
<b>Gene ID</b>	311144;25713

### For Research Use Only

## Background

DATK32 antibody is specific for a combinatorial determinate of integrin  $\alpha 4\beta 7$  complex. Integrin  $\alpha 4\beta 7$  is composed of a 150 kD ( $\alpha 4$  or CD49d) and a 130 kD ( $\beta 7$ ) heterodimer, also known as CD49d/ $\beta 7$  or LPAM-1. Belonging to the Ig superfamily, it is found on the majority of peripheral lymphocytes and subsets of thymocytes and bone marrow cells (including mast cell progenitors). Integrin  $\alpha 4\beta 7$  binds its ligands, VCAM-1 (CD106), MAdCAM-1 and fibronectin, and plays an important role in lymphocytes adhesion and the direction of migration of blood lymphocytes to the intestine and associated lymphoid tissues.