



11 Park Drive, Suite 12  
Boston, MA 02215

## **Rat anti mouse LPAM-1 (Integrin $\alpha 4\beta 7$ )** **(Azide-free & Low endotoxin)**

### **ORDERING INFORMATION**

<b>Catalog Number:</b>	<b>gAP-0034</b>
<b>Size:</b>	<b>1.00 mg</b>
<b>Storage:</b>	<b>&lt; -20° C</b>
<b>Immunogen:</b>	<b>TK1 cells</b>
<b>Ig Type:</b>	<b>Rat IgG2</b>
<b>Clone</b>	<b>AP-MAB0841</b>
<b>Endotoxin Level</b>	<b>&lt; 0.002EU/<math>\mu</math>g IgG*</b>
<b>Applications:</b>	<b>FC, IP, IHC (Frozen) &amp; Blocking</b>

**Description:** 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. It belongs to Ig superfamily found on 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 helps direct the migration of blood lymphocytes to the intestine and associated lymphoid tissues.

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with **Mouse TK1 cells**).

**Formulation:** The IgG fraction of **culture supernatant** was purified by Protein A/G affinity chromatography and lyophilized from a 0.2  $\mu$ m filtered solution in phosphate-buffered saline (PBS, **Azide Free**).

**Reconstitution:** Reconstitute the antibody with sterile PBS and the reconstituted antibody can be aliquoted and stored frozen at < -20 for at least for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles**. Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C.

**\*Endotoxin Level:** Extremely low level of LPS (< 0.002EU/ $\mu$ g IgG)

### **Application(s):**

- 1. FC and IP**
- 2. IHC (Frozen)**
- 3. Blocking  $\alpha 4\beta 7$  mediated lymphocyte adhesion to VCAM-1, MAdCAM-1 and fibronectin**

**\* The antibody is produced by in vitro culture.**

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Tel: 617-549-2665; Fax: (480) 247-4337, [angioproteomie@gmail.com](mailto:angioproteomie@gmail.com)