

Rat monoclonal anti mouse Integrin beta-7 **(Azide-free & Low endotoxin)**

ORDERING INFORMATION

Catalog Number:	gAP-0052
Size:	1.00 mg
Storage:	< -20° C
Immunogen:	Myeloid leukemia cell line (TK-1)
Ig Type:	Rat IgG2
Clone	AP-MAB0859
Endotoxin Level	< 0.002EU/μg IgG*
Applications:	FC and Blocking

Description: Integrin β7 is a 130 kD glycoprotein, also known as integrin βp. It is a member of the Ig superfamily. In association with integrin α4 or αE chain, β7 forms α4/β7 or αE/β7 heterodimer. α4/β7 (CD49d/β7, LPAM-1) is expressed on majority of peripheral lymphocytes, small subsets of thymocytes and bone marrow progenitors. LPAM-1 binds to several ligands, VCAM-1, MAdCAM-1 and fibronectin, and is involved in lymphocyte adhesion, some hematopoietic progenitor cells migration. αE/β7 (CD103/β7, αIEL/β7) is expressed on intestinal intraepithelial lymphocytes (IEL), dendritic epidermal T cells, T regulatory cells, a subset of CD8+ T cells in lymph nodes and lamina propria. CD103/β7 complex is thought to play a role in lymphocyte retention via interaction with its ligand E-Cadherin.

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with mouse **Myeloid leukemia cell line (TK-1)**).

Formulation: The IgG fraction of **culture supernatant** was purified by Protein A/G affinity chromatography and lyophilized from a 0.2 μm 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.

Specificity: This antibody reacts with both mouse and human β7 integrin

*** Endotoxin Level:** Extremely low level of LPS (< 0.002EU/μg IgG)

Application(s):

- 1. FC**
- 2. Blocking β7 integrin-mediated cell adhesion (in vitro and in vivo)**

*** The antibody is produced by in vitro culture and For Research Use Only.**