

### Integrin &7 Polyclonal Antibody

**Catalog # AP74263** 

### **Specification**

## Integrin β7 Polyclonal Antibody - Product Information

**Application Primary Accession** Reactivity Host

Human, Mouse Rabbit Clonality **Polyclonal** 

# Integrin β7 Polyclonal Antibody - Additional Information

**Gene ID 3695** 

**Other Names** 

Integrin beta-7 (Gut homing receptor beta subunit)

Dilution

WB~~WB 1:500-2000, ELISA 1:10000-20000

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions** 

-20°C

## Integrin β7 Polyclonal Antibody - Protein Information

### Name ITGB7

#### **Function**

Integrin ITGA4/ITGB7 (alpha-4/beta-7) (Peyer patches-specific homing receptor LPAM-1) is an adhesion molecule that mediates lymphocyte migration and homing to gut-associated lymphoid tissue (GALT) (Probable). Integrin ITGA4/ITGB7 interacts with the cell surface adhesion molecules MADCAM1 which is normally expressed by the vascular endothelium of the gastrointestinal tract (PubMed:<a href="http://www.uniprot.org/citations/10837471" target=" blank">10837471</a>, PubMed:<a href="http://www.uniprot.org/citations/14608374" target=" blank">14608374</a>). Also interacts with VCAM1 and fibronectin, an extracellular matrix component (Probable). It recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin (Probable). Interactions involve the tripeptide L-D-T in MADCAM1, and L-D-V in fibronectin (Probable). Integrin ITGAE/ITGB7 (alpha-E/beta-7, HML-1) is a receptor for E-cadherin (PubMed:<a href="http://www.uniprot.org/citations/10837471" target="blank">10837471</a>).

WB

P26010

### **Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location** 



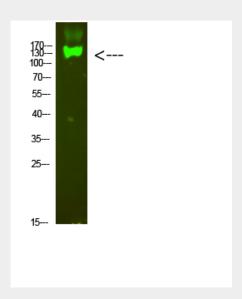
Expressed in a variety of leukocyte lines.

# Integrin β7 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Integrin β7 Polyclonal Antibody - Images



Western Blot analysis of mouse-heart cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody ☐Goat Anti-rabbit IgG IRDye 800( diluted at 1:5000, 25°C, 1 hour)

# Integrin β7 Polyclonal Antibody - Background

Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is an adhesion molecule that mediates lymphocyte migration and homing to gut-associated lymphoid tissue (GALT). Integrin alpha-4/beta-7 interacts with the cell surface adhesion molecules MADCAM1 which is normally expressed by the vascular endothelium of the gastrointestinal tract. Interacts also with VCAM1 and fibronectin, an extracellular matrix component. It recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Interactions involves the tripeptide L-D-T in MADCAM1, and L-D-V in fibronectin. Binds to HIV-1 gp120, thereby allowing the virus to enter GALT, which is thought to be the major trigger of AIDS disease. Interaction would involve a tripeptide L-D-I in HIV-1 gp120. Integrin alpha-E/beta-7 (HML-1) is a receptor for E-cadherin.