

**anti-mouse CD49d purified****Cat-No.: M22154            0.1mg****Clone:** R1-2**Specificity:**

The anti-mouse CD49d monoclonal antibody reacts with  $\alpha 4$  integrin, which helps to mediate cell-cell and cell-matrix interactions.  $\alpha 4$  integrin combines with  $\beta 1$  and  $\beta 7$  integrin to form VLA-4 and LPAM-1 (Peyer's patch homing receptor) respectively. VLA-4 is expressed on most peripheral lymphocytes, thymocytes and monocytes. LPAM-1 is found on peripheral lymphocytes, but few thymocytes. Fibronectin and VCAM-1 act as ligands for both VLA-4 and LPAM-1. LPAM-1 also binds the mucosal vascular addressin MAdCAM-1.(1)

**Isotype subclass:** Rat IgG2b**Form:** Purified**Physical state:** Liquid**Buffer/Additives/Preservative:**

PBS containing 0.09 % sodium azide (pH 7.4)

**Expiration date:**

The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:**

Store at 4 °C. For long term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Application:**Flow Cytometry  
Immunoprecipitation  
Immunohistochemistry**References:**

- 1) Berlin, C., E. L. Berg, M. J. Briskin, D. P. Andrew, P. J. Kilshaw, B. Holzmann, I. L. Weissmann, A. Hamann, E. C. Butcher 1993.  $\alpha 4\beta 7$  integrin mediates lymphocyte binding to the mucosal vascular addressin MAdCAM-1. *Cell* 704:185-195
- 2) Holzmann, B., I., L., Weissmann 1989. Peyer's patch-specific lymphocyte homing receptor consist of a VLA-4 like  $\alpha$  chain associated with either of two integrin  $\beta$  chains, one of which is novel. *EMBO* 8:1736-1741
- 3) Holzmann, B., B. W. McIntyre, I. W. Weissmann 1989. Identification of a murine Peyer's patch lymphocyte homing receptor as an integrin molecule with an  $\alpha$  chain homologous to human VLA-4a. *Cell* 56:37-46

**Warning:**

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research only**. Not for use in human. For in vitro use only.  
EuroBioSciences will not be held responsible for patent infringement or other violations that may occur with the use of our products.