

## Anti-Mouse CD49d (Integrin alpha 4) Functional Grade Purified

**Catalog Number:** 16-0492

**Also Known As:** Integrin  $\alpha$ 4, VLA4, ITGA4

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

### Product Information

**Contents:** Anti-Mouse CD49d (Integrin alpha 4) Functional Grade Purified

**REF** **Catalog Number:** 16-0492

**Clone:** R1-2

**Concentration:** 1 mg/mL

**Host/Isotype:** Rat IgG2b, kappa

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

### Description

The R1-2 monoclonal antibody reacts with mouse CD49d, the 150 kDa integrin alpha4 subunit. The complex of CD49d non-covalently associated with integrin beta1 (CD29), also known as VLA-4, is a receptor for fibronectin and VCAM-1 (CD106). This complex is expressed by thymocytes, peripheral lymphocytes, monocytes and eosinophils. CD49d also associates with integrin b7 and binds to the Mucosal vascular Addressin (MAdCAM-1).

### Applications Reported

The R1-2 antibody has been reported for use in flow cytometric analysis. R1-2 has also been reported in *in vitro* functional assays.

### Applications Tested

The R1-2 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.5  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Holzmann B, McIntyre BW, Weissman IL. Identification of a murine Peyer's patch--specific lymphocyte homing receptor as an integrin molecule with an alpha chain homologous to human VLA-4 alpha. *Cell*. 1989 Jan 13;56(1):37-4.

Neuhaus H, Hu MC, Hemler ME, Takada Y, Holzmann B, Weissman IL. Cloning and expression of cDNAs for the alpha subunit of the murine lymphocyte-Peyer's patch adhesion molecule. *J Cell Biol*. 1991 Nov;115(4):1149-58.

### Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

16-4031 Rat IgG2b K Isotype Control Functional Grade Purified

17-4317 Streptavidin APC

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