

A Reliable Research Partner in Life Science and Medicine

FITC Anti-Mouse CD49d Antibody[R1-2]

Catalog Number: AN00422C

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Mouse Rat Host

Isotype Rat IgG2b, ĸ

Clone No. R1-2

FITC Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842C] Isotype Control

Conjugation

Conjugation Information FITC is designed to be excited by the Blue laser (488 nm) and detected using an optical

filter centered near 530 nm (e.g., a 525/40 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

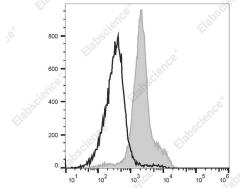
Applications Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount **FCM**

of the reagent is suggested to be used 5 µL of antibody per test (million cells in 100 µL staining volume or per 100 µL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for

individual use.

Data



Staining of C57BL/6 murine splenocytes cells with FITC Anti-Mouse CD49d Antibody[R1-2] (filled gray histogram) or FITC Rat IgG2b, κ Isotype Control (empty black histogram). Total viable cells were used for analysis.

Preparation & Storage

Keep as concentrated solution. **Storage**

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names α4 integrin; VLA-4 α chain; integrin α4; ITGA4

Uniprot ID Q00651 Gene ID 16401

For Research Use Only

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Background

CD49d is a 150 kD glycoprotein, also known as α4 integrin or VLA-4 α chain. It is a member of the integrin family, expressed on T and B cells, monocytes, eosinophils, basophils, mast cells, thymocytes, NK cells, and dendritic cells. CD49d is a heterodimer expressed with either of two β chains, β 1 (CD29) or β 7, to form the VLA-4 (integrin $\alpha 4\beta 1)$ or LPAM-1 (integrin $\alpha 4\beta 7)$ complexes. CD49d plays a critical role in adhesion and T cell costimulation. The primary ligands for CD49d are VCAM-1, MAdCAM-1, and fibronectin.

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