

A Reliable Research Partner in Life Science and Medicine

Elab Fluor® 488 Anti-Mouse CD49d Antibody[R1-2]

Catalog Number: AN00422UL

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

Description

Reactivity Mouse Rat Host

Isotype Rat IgG2b, ĸ

Clone No. R1-2

Isotype Control Elab Fluor® 488 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842L]

Conjugation Elab Fluor®488

Conjugation Information Elab Fluor® 488 is designed to be excited by the Blue laser (488 nm) and detected using

an optical filter centered near 520 nm (e.g., a 525/40 nm bandpass filter).

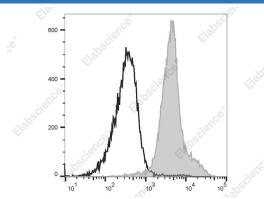
Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. Storage Buffer

Applications Recommended usage

FCM

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

 488 Anti-Mouse CD49d Antibody[R1-2] (filled gray) histogram) or Elab Fluor $^{\!8\!}$ 488 Rat IgG2b, κ Isotype Control (empty black histogram). Total viable cells were used for analysis.

Preparation & Storage

Storage Keep as concentrated solution.

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 $\alpha4$ 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, $\beta1$ (CD29) or $\beta7$, to form the VLA-4 (integrin $\alpha4\beta1$) or LPAM-1 (integrin $\alpha4\beta7$) complexes. CD49d plays a critical role in adhesion and T cell costimulation. The primary ligands for CD49d are VCAM-1, MAdCAM-1, and fibronectin.