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Elab Fluor® 488 Anti-Human CD49d Antibody[9F10]

Catalog Number: E-AB-F1144L

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

Description

Reactivity Human Mouse Host

Isotype Mouse IgG1, ĸ

9F10 Clone No.

Isotype Control Elab Fluor® 488 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792L]

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

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.

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 CD49 antigen-like family member D;CD49d;ITGA4;Integrin alpha-4;Integrin alpha-IV;

VLA-4 subunit alpha

Uniprot ID P13612 Gene ID 3676

Background CD49d is a 150 kD α integrin chain known as α 4 integrin or VLA-4 α chain. It forms a

> heterodimer with either integrin β1 (α4β1, VLA-4) or β7 (α4β7). CD49d is expressed broadly on Tlymphocytes, Blymphocytes, monocytes, thymocytes, eosinophils,

basophils, mast cells, NK cells, dendritic cells, and some non-hematopoietic cells, but not on normal red blood cells, platelets or neutrophils. VLA-4 binds to VCAM-1 (CD106) and fibronectin. α4β7 is the receptor for VCAM-1 and MAdCAM-1. CD49d participates in mononuclear cell trafficking to endothelial sites of inflammation and has roles in cellcell interactions and cell adhesion to extracellular matrices. CD49d is involved in lymphocyte migration, T cell activation, and hematopoietic stem cell differentiation.

CD49d is a marker to isolate pure populations of Treg cells due to its absence on

Foxp3+ cells.

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