Elabscience®

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

Catalog No.E-AB-F1144LStorageStore at 2~8°C, Avoid freeze / thaw cycles

Reactivity Applications

Human FCM

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

Antigen Information

Alternate Names	Integrin alpha-4,CD49 antigen-like family member D,Integrin alpha-IV,VLA-4 subunit alpha,CD49d,ITGA4
Uniprot ID	P13612
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 $\beta 1$ ($\alpha 4\beta 1$, VLA-4) or $\beta 7$ ($\alpha 4\beta 7$). CD49d is expressed broadly on
	T lymphocytes, B lymphocytes, 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. α 4 β 7 is the receptor
	for VCAM-1 and MAdCAM-1. CD49d participates in mononuclear cell trafficking to endothelial
	sites of inflammation and has roles in cell-cell 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.

Product Details

Form	Liquid
Size	20Tests/100Tests/100Tests×2
Clone No.	9F10
Host	Mouse
Isotype	Mouse IgG1, ĸ
Reactivity	Human
Application	FCM
Isotype Control	Elab Fluor [®] 488 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792L]
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.
Shipping	Biological ice pack at 4 °C
Stability & Storage	Keep as concentrated solution.
	Store at 2~8°C and protected from prolonged exposure to light.Do not freeze.
	This product is guaranteed up to one year from purchase.

For Research Use Only

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Fluorophore

Conjugation: Elab Fluor[®] 488

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).

Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 μ L of antibody per test (million cells in 100 μ L staining volume or per 100 μ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Related Information

- 1. Sample Preparation for Flow Cytometry https://www.elabscience.com/List-detail-5594.html
- 2. Staining Cell Surface Targets for Flow Cytometry https://www.elabscience.com/List-detail-5568.html
- 3. Flow Cytometry Troubleshooting Tips https://www.elabscience.com/List-detail-5593.html
- 4. How to select the appropriate detection channel through the spectrogram? <u>https://www.elabscience.com/List-detail-459742.html</u>