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CD49d Antibody [9F10] (APC)

CATALOG NUMBER: 76-806

Specifications

SPECIES REACTIVITY:	
TESTED APPLICATIONS:	
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The 9F10 monoclonal antibody specifically reacts with human CD49d, the 150 kDA alpha 4 integrin chain.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	0.2 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG1, kappa
CONJUGATE:	APC

Additional Info

ALTERNATE NAMES:	IA4, CD49D, ITGA4
OFFICIAL SYMBOL:	ITGA4
GENE ID:	3676

Background

BACKGROUND:	The 9F10 monoclonal antibody specifically reacts with human CD49d, the 150 kDA alpha 4 integrin chain. The molecule forms the heterodimer called VLA-4 with integrin beta 1 and another heterodimer with integrin beta 7 that binds fibronectin, VCAM-1, and MadCAM-1. CD49d is expressed on monocytes, lymphocytes, thymocytes, NK cells, B cells, and T cells. It is involved in hematopoietic stem cell differentiation, cell migration, and cell activation. Its absence on Foxp3+ cells make it a useful marker to isolate Treg cell populations.
REFERENCES:	1) Arase, H., Saito, T., Phillips, J. H., Lanier, L. L. (2001). Cutting edge: the mouse NK cell-associated antigen recognized by DX5 moncoclonal antibody is CD49b (alpha 2 integrin, very late antigen-2).The Journal of Immunology,167(3), 1141-1144.
	2) Miyake, S., Sakurai, T., Okumura, K., Yagita, H. (1994). Identification of collagen and laminin receptor integrins on murine T lymphocytes.European journal of immunology,24(9), 2000-2005.
	3) Noto, K., Kato, K., Okumura, K., Yagita, H. (1995). Identification and functional characterization of mouse CD29 with a mAb.International immunology,7(5), 835-842.

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