Datasheet for ABIN1177343

anti-ITGA4 antibody

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Overview

Quantity:	0.5 mg
Target:	ITGA4
Reactivity:	Human, Cow, Dog, Horse, Cat, Sheep, Cynomolgus, Baboon, Rhesus Monkey
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS)

Product Details

Brand:	BD Pharmingen™
Clone:	9F10
Isotype:	IgG1 kappa
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin level is ≤ 0.01 EU/µg (≤ 0.001 ng/µg) of protein as determined by the LAL assay.

Target Details

Target:	ITGA4
Alternative Name:	CD49d (ITGA4 Products)
Background:	The 9F10 monoclonal antibody specifically reacts with the integrin alpha4 chain, that is

Target Details

	expressed as a heterodimer with either of two beta integrin subunits, beta1 (CD29) or beta7. The alpha4beta1 integrin (VLA-4) is expressed on lymphocytes, monocytes, thymocytes, NK cells, and several B- and T-cell lines, and mediates binding to VCAM-1 (CD106) and the CS-1 region of fibronectin. The alpha4beta7 integrin has a similar tissue distribution, except it is found on only a small subpopulation of thymocytes. Integrin alpha4beta7 also binds fibronectin and VCAM-1, and has been shown in the mouse to preferentially bind the mucosal vascular addressin molecule, MAdCAM-1. This antibody is useful for studies of the expression by and function of cells that express alpha4 chain-containing integrins. Synonyms: Integrin alpha4 chain, Integrin alpha 4, ITGA4, IA4, alpha 4 subunit of VLA-4
Pathways:	Integrin Complex

Application Details

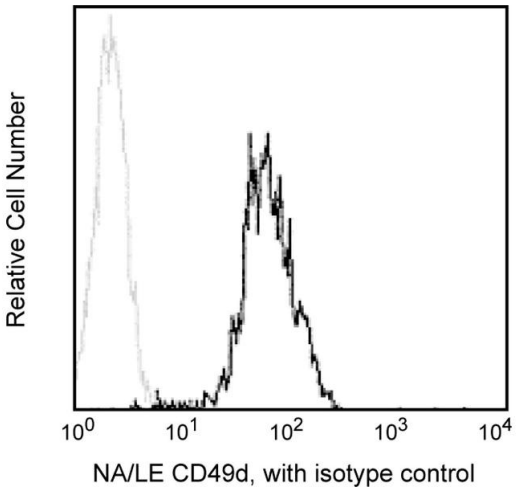
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered.
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Publications

Product cited in:	Berlin, Berg, Briskin, Andrew, Kilshaw, Holzmann, Weissman, Hamann, Butcher: "Alpha 4 beta 7 integrin mediates lymphocyte binding to the mucosal vascular addressin MAdCAM-1." in: **Cell**, Vol. 74, Issue 1, pp. 185-95, (1993) (PubMed).



Flow Cytometry

Image 1.