

Technical Data Sheet

Biotin Mouse Anti-Human CD49e

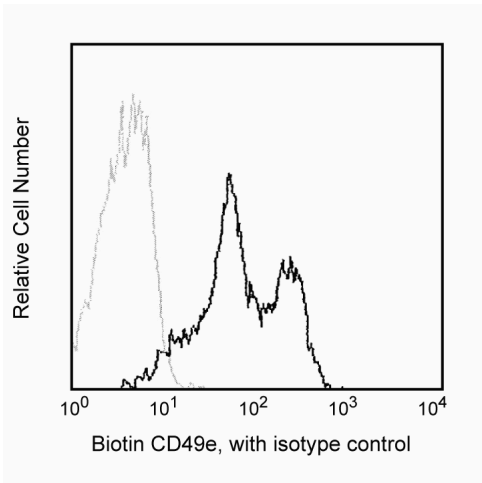
Product Information

Material Number:	555616
Alternate Name:	Integrin α5 Chain
Size:	100 tests
Vol. per Test:	20 µl
Clone:	IIA1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human Tested in Development: Rabbit
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with the α5 integrin, a dimer of 135/25 kDa, that associates with β1 integrin (CD29) to form VLA-5, a well-established fibronectin receptor that is expressed on many cell types, including fibroblasts, endothelial cells, epithelial cells, platelets, peripheral T cells, the myeloid cell line U937, K562 and some melanoma cell lines. This clone inhibits α5β1/ligand binding, and is useful for studies of the expression and function of this integrin.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of peripheral blood lymphocytes collected on a FACSscan (BDIS, San Jose, CA)

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
554061	PE Streptavidin	0.5 mg	(none)
555747	Biotin Mouse IgG1 κ Isotype Control	100 tests	MOPC-21

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10⁶ cells in a 100- μ l experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Guesdon JL, Ternynck T, Avrameas S. The use of avidin-biotin interaction in immunoenzymatic techniques. *J Histochem Cytochem.* 1979; 27(8):1131-1139. (Clone-specific)

Tran Van Nhieu G, Isberg RR. Bacterial internalization mediated by beta 1 chain integrins is determined by ligand affinity and receptor density. *EMBO J.* 1993; 12(5):1887-1895.(Biology)

Tran Van Nhieu G, Isberg RR. The Yersinia pseudotuberculosis invasin protein and human fibronectin bind to mutually exclusive sites on the alpha 5 beta 1 integrin receptor. *J Biol Chem.* 1991; 266(36):24367-24375.(Biology)