

Technical Data Sheet

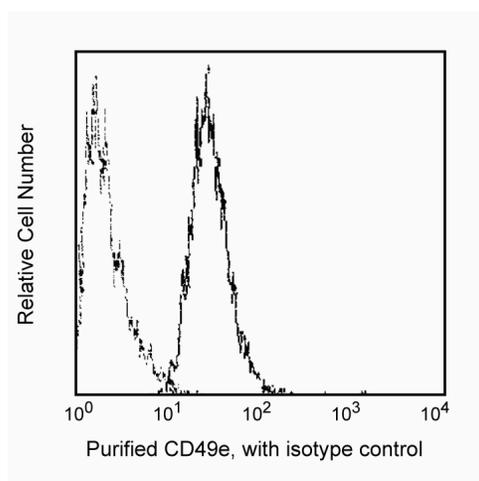
Purified Mouse Anti-Human CD49e**Product Information**

Material Number:	555615
Alternate Name:	Integrin $\alpha 5$ Chain
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	IIA1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human Tested in Development: Rabbit
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with the $\alpha 5$ integrin, a dimer of 135/25 kDa, that associates with $\beta 1$ 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 $\alpha 5\beta 1$ /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 K562 cells analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4° C.

Application Notes**Application**

Flow cytometry	Routinely Tested
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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
555746	Purified Mouse IgG1 Kappa Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Gt/Ms

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. 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.

References

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)