

## Technical Data Sheet

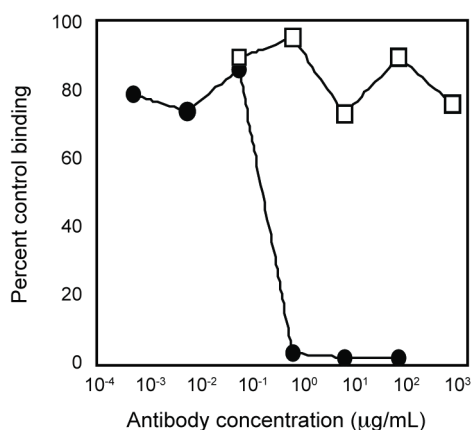
## Purified NA/LE Mouse Anti-Human CD49e

## Product Information

Material Number:	555614
Alternate Name:	Integrin $\alpha 5$ Chain
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	IIA1
Isotype:	Mouse IgG1, $\kappa$
Reactivity:	QC Testing: Human
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 $\mu$ m sterile filtered. Endotoxin level is $\leq 0.01$ EU/ $\mu$ g ( $\leq 0.001$ ng/ $\mu$ g) of protein as determined by the LAL assay.

## 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.



**Effects of anti- $\alpha 5 \beta 1$  antibodies on K562 cell binding to fibronectin.** Aliquots of a suspension of K562 cells, and erythroleukemia cell line expressing cell line expressing the  $\alpha 5 \beta 1$  integrin fibronectin receptor, were incubated in the presence of the designated concentrations of purified anti- $\alpha 5 \beta 1$  antibodies IIA1 (•), or VC5 (□), or without antibody, for 30 minutes at room temperature. The suspensions were then transferred to plastic microtiter wells that had been precoated with 12  $\mu$ g/mL fibronectin and allowed to incubate for 45 minutes at 37°C. Unattached cells were removed by aspiration and washing with PBS, and the attached cells were semi-quantitated using toluidine blue staining. The resulting absorbance signals are expressed relative to the average signal obtained without antibody.

## Preparation and Storage

Store undiluted at 4°C.

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

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

## Application Notes

## Application

Flow cytometry	Routinely Tested
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## Suggested Companion Products

Catalog Number	Name	Size	Clone
554721	Purified NA/LE Mouse IgG1 $\kappa$ Isotype Control	0.5 mg	107.3
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

## Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

## References

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)

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