

## Technical Data Sheet

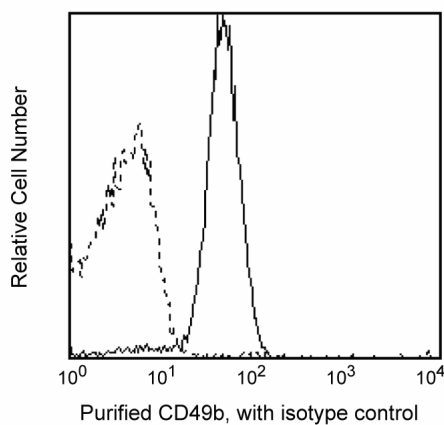
**Purified Mouse Anti-Human CD49b****Product Information**

<b>Material Number:</b>	555668
<b>Alternate Name:</b>	Integrin $\alpha 2$ chain
<b>Size:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	12F1
<b>Isotype:</b>	Mouse IgG2a, $\kappa$
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	V S220
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

**Description**

Reacts with integrin  $\alpha 2$  chain (VLA- $\alpha 2$ ), a member of the integrin family of extracellular matrix and cell-cell adhesion receptors. VLA- $\alpha 2$  is non-covalently associated with VLA- $\beta 1$  chain (CD29) in the VLA-2 complex.  $\alpha 2$  is expressed on numerous cell types including activated T cells, platelets, and long-term cultivated T cells.  $\alpha 2\beta 1$  is a well-established receptor for collagen. This antibody is useful for studies of integrin expression and function.

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 platelets analyzed by flow cytometry*

**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
Fluorescence microscopy	Tested During Development

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

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**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmlingen/protocols](http://www.bdbiosciences.com/pharmlingen/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**

Knapp W, Dorken B, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989.(Biology)

Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995.(Clone-specific)

Hemler ME. VLA proteins in the integrin family: structures, functions, and their role on leukocytes. *Annu Rev Immunol*. 1990; 8:365-400.(Biology)