

Technical Data Sheet

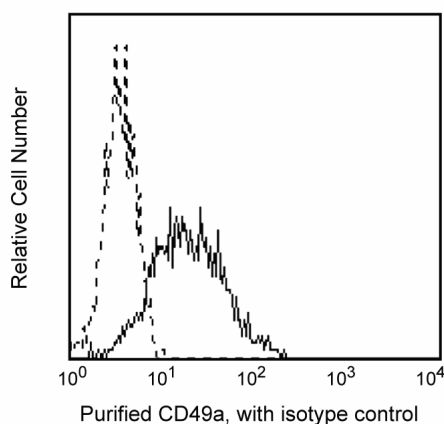
Purified Mouse Anti-Human CD49a**Product Information**

Material Number:	559594
Alternate Name:	Integrin $\alpha 1$ Chain
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	SR84
Immunogen:	P-Selectin IgG1 Fusion Protein
Isotype:	Mouse IgG1 κ
Reactivity:	QC Testing: Human
Workshop:	V S223
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with a type I transmembrane molecule of approximately 200 kDa. CD49a is also known as very late antigen 1 α subunit (VLA-1) of the integrin family of cell adhesion molecules. CD49a associates with the integrin $\beta 1$ subunit (CD29) to form the $\alpha 1/\beta 1$ heterodimer (CD49a/CD29), and serves as receptor for collagen and laminin-1. It is expressed on activated T cells, monocytes, neuronal cells and smooth muscle cells. CD49a has been reported to play a role in cell attachment during the development of both the central and peripheral nervous systems.

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 HeLa cell line 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
Immunohistochemistry-frozen	Tested During Development

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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

- Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997.(Biology)
- Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)
- Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995.(Clone-specific)