Technical Data Sheet

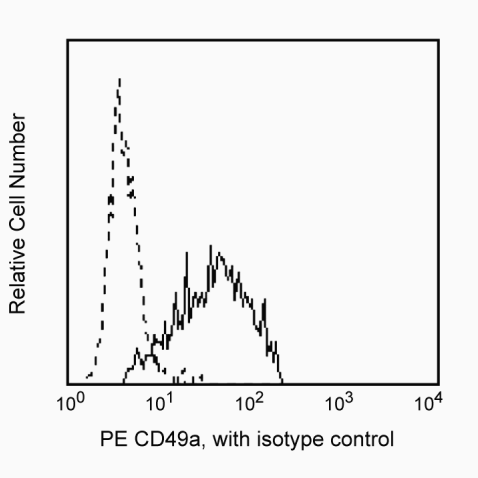
PE Mouse Anti-Human CD49a

Product Information

Material Number:	**559596**
Alternate Name:	Integrin α1 Chain
Size:	100 tests
Vol. per Test:	20 µl
Clone:	SR84
Immunogen:	P-Selectin IgG1 Fusion
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V S223
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a type I transmembrane molecule of approximately 200 kDa. CD49a is also known as very late antigen 1α subunit (VLA-1) of the integrin family of cell adhesion molecules. CD49a associates with the integrin β1 subunit (CD29) to form the α1/β1 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.



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.
The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE 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 × 10^6 cells in a 100-µl 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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

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5. 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.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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