Technical Data Sheet

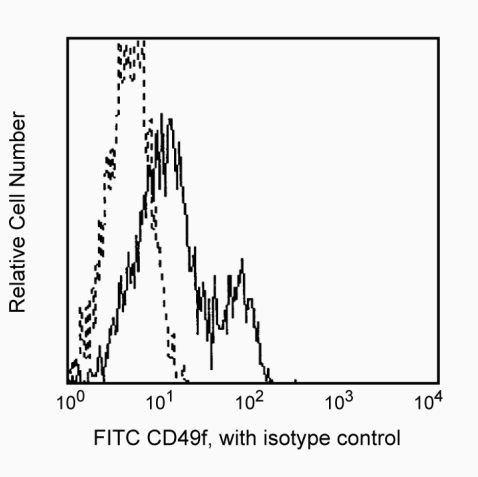
FITC Rat Anti-Human CD49f

Product Information

Material Number:	**561893**
Alternate Name:	Integrin α6 chain
Size:	25 tests
Vol. per Test:	20 µl
Clone:	GoH3
Immunogen:	Mouse mammary tumor cells
Isotype:	Rat (SD) IgG2a, κ
Reactivity:	QC Testing: Human Tested in Development: Dog, Mouse, Pig
Workshop:	IV P55
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with CD49f or integrin α6 chain, a 150 kDa transmembrane protein, member of extracellular matrix and cell adhesion receptor family. α6 associates with integrin β1 chain (CD29) to form VLA-6 and with integrin β4 chain (CD104) to form the α6 β4 complex, also known as the laminin and kalinin receptor. CD49f is expressed mainly on T cells, monocytes, platelets, epithelial and endothelial cells, perineural cells and trophoblasts of placenta. GoH3 recognizes an extracellular epitope of integrin α6 on human, mouse and bovine cells. GoH3 has been reported to block the binding of integrin α6 to laminin P1 and E8 fragments.



Profile of peripheral blood lymphocytes analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555843	FITC Rat IgG2a, κ Isotype Control	100 tests	R35-95
554656	Stain Buffer (FBS)	500 ml	(none)

BD Biosciences

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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. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
6. An isotype control should be used at the same concentration as the antibody of interest.

References

Aumailley M, Timpl R, Sonnenberg A. Antibody to integrin alpha 6 subunit specifically inhibits cell-binding to laminin fragment 8. *Exp Cell Res.* 1990; 188(1):55-60. (Biology)

Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989:1-1208. (Clone-specific)

Sonnenberg A, Daams H, Van der Valk MA, Hilkens J, Hilgers J. Development of mouse mammary gland: identification of stages in differentiation of luminal and myoepithelial cells using monoclonal antibodies and polyvalent antiserum against keratin. *J Histochem Cytochem.* 1986; 34(8):1037-1046. (Immunogen)