

Technical Data Sheet

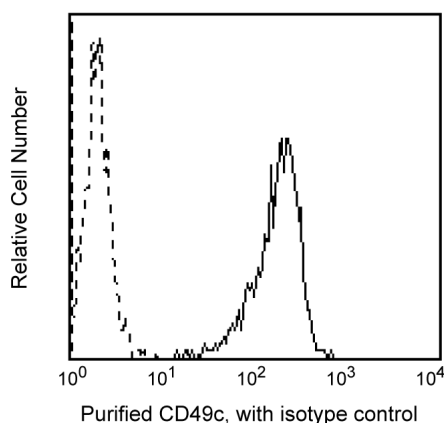
Purified Mouse Anti-Human CD49c**Product Information**

Material Number:	556024
Alternate Name:	Integrin $\alpha 3$ chain
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	C3 II.1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V E072
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with $\alpha 3$ integrin, a 150 kDa transmembrane glycoprotein which non-covalently associates with integrin $\beta 1$ (CD29) to form the $\alpha 3\beta 1$ (CD49c/CD29, VLA-3) complex. CD49c is expressed mostly on endothelial and epithelial cells (basal epidermal layers). It is not expressed on platelets and is expressed weakly on peripheral blood leukocytes. The CD49c/CD29 complex serves as an adhesive receptor for kalinin or epiligrin. This interaction may be important for thymocyte interaction with thymic epithelium.

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 MG-63 (human osteosarcoma) cells analyzed on a FACScan (BDIS, San Jose, CA)

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, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

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

- Pigott R, Power C. *The Adhesion Molecule Facts Book*. 1993:173.(Biology)
- Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)
- Engel P, Wagner N, Zhou L, et al. CD86 Workshop Report. In: Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995.(Biology)