

Technical Data Sheet

FITC Hamster Anti-Rat CD49b

Product Information

Material Number:	554999
Alternate Name:	Integrin $\alpha 2$ chain
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	Ha1/29
Immunogen:	Cultured Rat Glomerular Epithelial
Isotype:	Armenian Hamster IgG2, λ
Reactivity:	QC Testing: Rat Tested in Development: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The Ha1/29 antibody reacts with integrin $\alpha 2$ chain (CD49b or VLA-2 α chain), the 160-kDa transmembrane glycoprotein that non-covalently associates with the integrin $\beta 1$ subunit (CD29) to form the integrin $\alpha 2\beta 1$ complex known as VLA-2. VLA-2, a receptor for collagen and laminin, is expressed on activated lymphocytes, epithelial cells, and platelets. It has been reported that Ha1/29 antibody can block VLA-2 binding to collagen and laminin. Ha1/29 antibody also reacts with mouse CD49b.

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.

Preparation and Storage

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.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553964	FITC Hamster IgG2, $\lambda 1$ Isotype Control	0.25 mg	Ha4/8

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. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/pharmingen/hamster_chart_11x17.pdf.
4. 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

Hemler ME. VLA proteins in the integrin family: structures, functions, and their role on leukocytes. *Annu Rev Immunol.* 1990; 8:365-400.(Biology)
Mendrick DL, Kelly DM. Temporal expression of VLA-2 and modulation of its ligand specificity by rat glomerular epithelial cells in vitro. *Lab Invest.* 1993; 69(6):690-702.(Immunogen)
Mendrick DL, Kelly DM, duMont SS, Sandstrom DJ. Glomerular epithelial and mesangial cells differentially modulate the binding specificities of VLA-1 and VLA-2. *Lab Invest.* 1995; 72(3):367-375.(Clone-specific)

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