Technical Data Sheet

Purified NA/LE Hamster Anti-Rat/Mouse CD49a

Product Information

Material Number: 555000

Alternate Name: Integrin al chain

Size 0.5 mg 1.0 mg/ml Concentration: Clone: Ha31/8

Immunogen: Rat Emulsified Lewis Rat Glomeruli Cells

Isotype: Armenian Hamster IgG2, λ1

Reactivity: QC Testing: Rat

Tested in Development: Mouse

Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative,

 $0.2\mu m$ sterile filtered. Endotoxin level is ≤ 0.01 EU/ μg (≤ 0.001 ng/ μg) of

protein as determined by the LAL assay.

Description

The Ha31/8 antibody reacts with the 180-kDa integrin α1 chain (CD49a), which is a transmembrane glycoprotein that non-covalently associates with the integrin β1 subunit (CD29) to form the α1β1 (complex known as VLA-1). VLA-1 has been reported to be expressed on activated T cells, monocytes, smooth muscle cells, and endothelial cells. It is a receptor for collagen and laminin. The Ha31/8 monoclonal antibody is specific for both rat and mouse CD49a. It has been reported that Ha31/8 antibody can block VLA-1-mediated binding of rat cells to collagen.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

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Flow cytometry	Routinely Tested
Blocking	Reported
Immunoprecipitation	Reported
Immunohistochemistry-frozen	Reported
Immunohistochemistry-formalin (antigen retrieval required)	Not Recommended
Western blot	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
553961	Purified NA/LE Hamster IgG2, λ1 Isotype Control	0.5 mg	Ha4/8
554011	FITC Mouse Anti-Armenian and Syrian Hamster IgG Cocktail	0.5 mg	(none)

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 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.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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, 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. (Immunogen: Blocking, Immunohistochemistry, Immunoprecipitation) Miyake S, Sakurai T, Okumura K, Yagita H. Identification of collagen and laminin receptor integrins on murine T lymphocytes. Eur J Immunol. 1994; 24(9):2000-2005. (Biology)

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