

Technical Data Sheet

Biotin Hamster Anti-Rat CD29

Product Information

Material Number:	555004
Alternate Name:	Integrin β 1 chain
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	Ha2/5
Immunogen:	Rat glomerular epithelial cells
Isotype:	Armenian Hamster IgM, κ
Reactivity:	QC Testing: Rat Tested in Development: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The Ha2/5 antibody reacts with the 130 kDa integrin β 1 chain (CD29). CD29 is expressed on the cell surface as a heterodimer with one of the distinct integrin α chains. With α 1 through α 6 (CD49a through CD49f), it forms the VLA-1 through VLA-6 complexes, respectively, and with α V (CD51), it forms α V β 1 integrin. As a result, CD29 has a broad tissue distribution, including lymphocytes, endothelia, smooth muscle, and epithelia. The Ha2/5 hamster anti-rat CD29 monoclonal antibody cross-reacts with mouse thymocytes, splenocytes, and peripheral lymph node leukocytes. The Ha2/5 antibody blocks *in vitro* adhesion of CD29-expressing cells to collagen.

Preparation and Storage

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

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin 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
554057	Avidin FITC	0.5 mg	(none)

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

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)
Springer TA. Adhesion receptors of the immune system. *Nature.* 1990; 346(6283):425-434.(Biology)

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