Technical Data Sheet

Purified NA/LE Mouse Anti-Human CD49e

Product Information
Material Number: 555650
Alternate Name: Integrin α5 chain
Size: 0.5 mg
Concentration: 1.0 mg/ml
Clone: VC5
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Workshop: VI A091
Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

Description
Reacts with the α5 integrin, a dimer of 135/25 kDa, that associates with β1 integrin (CD29) to form VLA-5, a well-established fibronectin receptor that is expressed on many cell types, including fibroblasts, endothelial cells, epithelial cells, platelets, peripheral T cells, the myeloid cell line U937, K562 and some melanoma cell lines. This clone does not inhibit α5β1/ligand binding.

Effects of anti-α5β1 antibodies on K562 cell binding to fibronectin. Aliquots of a suspension of K562 cells, an erythroleukemia cell line expressing the α5β1 integrin fibronectin receptor, were incubated in the presence of the designated concentrations of purified, azide-free anti-α5β1 antibodies IIA1 (filled dot), or VC5 (empty box), or without antibody, for 30 minutes at room temperature. The suspensions were then transferred to plastic microtiter wells that had been pre-coated with 12 µg/mL fibronectin and allowed to incubate for 45 minutes at 37°C. Unattracted cells were removed by aspiration and washing with PBS, and the attached cells were semi-quantitated using toluidine blue staining. The resulting absorbance signals are expressed relative to the average signal obtained without antibody.

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
Flow cytometry Routinely Tested
Immunoprecipitation Tested During Development
Functional assay Tested During Development

Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
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<td>Purified Mouse IgG1, κ Isotype Control</td>
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<td>MOPC-21</td>
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<td>555988</td>
<td>FITC Goat Anti-Mouse IgG/IgM</td>
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<td>Polyclonal</td>
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556050 Rev. 5
Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

References

(Extensive)
Tran Van Nhieu G, Isberg RR. Bacterial internalization mediated by beta 1 chain integrins is determined by ligand affinity and receptor density. EMBO J. 1993; 12(5):1887-1895. (Biology)