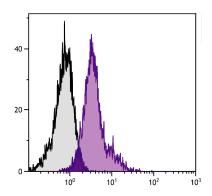
SouthernBiotech 1



Rat Anti-Mouse CD49e

| Cat. No. | Format | Size |
|----------|-----------------------------------|--------|
| 1695-01 | Purified (UNLB) | 0.5 mg |
| 1695-02 | Fluorescein (FITC) | 0.5 mg |
| 1695-02S | Fluorescein (FITC) | 0.1 mg |
| 1695-09 | R-phycoerythrin (PE) | 0.1 mg |
| 1695-14 | Low Endotoxin, Azide-Free (LE/AF) | 0.5 mg |
| 1695-30 | Alexa Fluor® 488 (AF488) | 0.1 mg |
| 1695-31 | Alexa Fluor® 647 (AF647) | 0.1 mg |



C57BL/6 mouse bone marrow cells were stained with Rat Anti-Mouse CD49e-AF647 (SB Cat. No. 1695-31).

Overview

Immunogen C57BL/6 x A/J F₁ mouse mast cell line MC/9

Specificity Mouse CD49e; Mr 135 kDa

Alternate Name(s) Integrin α_5 , VLA- 5α

Description

The monoclonal antibody 5H10.27 reacts with the α_5 chain (VLA-5) of the CD49e/CD29 heterodimeric fibronectin receptor. It is expressed on thymocytes, activated T cells, mast cells, and a variety of mouse cell lines. Soluble 5H10.27 antibody inhibits VLA-5-mediated functions *in vitro*. Immobilized 5H10.27 has also been demonstrated to costimulate the proliferative response of CD8⁺ T cells to plate-bound anti-CD3 monoclonal antibody.

Applications

FC – Quality tested 1,2

IHC-FS - Reported in literature 3

Block – Reported in literature 1,2

Costim – Reported in literature ²

Adhesion – Reported in literature 1,2

Working Dilutions

Flow Cytometry Purified (UNLB) antibody $\leq 1 \mu g/10^6$ cells FITC conjugate $\leq 2 \mu g/10^6$ cells

FITC conjugate $\le 2 \ \mu g/10^6 \ cells$ AF488, and AF647 conjugates $\le 1 \ \mu g/10^6 \ cells$ PE conjugate $\le 0.3 \ \mu g/10^6 \ cells$

For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is

appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No
 preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no
 preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple
 freeze / thaw cycles.
- The Alexa Fluor[®] 488 (AF488) and Alexa Fluor[®] 647 (AF647) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

- 1. Kinashi T, Springer TA. Adhesion molecules in hematopoietic cells. Blood Cells. 1994;20:25-44. (Immunogen, FC, Block, Adhesion)
- 2. Rich S, Van Nood N, Lee H. Role of α₅β₁ integrin in TGF-β1-costimulated CD8⁺ T cell growth and apoptosis. J Immunol. 1996;157:2916-23. (Costim, Block, Adhesion, FC)
- 3. Schmieder AH, Caruthers SD, Zhang H, Williams TA, Robertson JD, Wickline SA, et al. Three-dimensional MR mapping of angiogenesis with α₅β₁(α₇β₃)-targeted theranostic nanoparticles in the MDA-MB-435 xenograft mouse model. FASEB J. 2008;22:4179-89. (IHC-FS)

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