Mouse Anti-Human CD49f

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>9650-01</td>
<td>Purified (UNLB)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>9650-02</td>
<td>Fluorescein (FITC)</td>
<td>100 tests</td>
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<tr>
<td>9650-09</td>
<td>R-phycoerythrin (PE)</td>
<td>100 tests</td>
</tr>
</tbody>
</table>

**Overview**

**Clone**
4F10

**Isotype**
Mouse (BALB/c) IgG2bκ

**Immunogen**
SW1222 human colorectal cell line

**Specificity**
Human CD49f; Mr 125 kDa

**Alternate Name(s)**
Integrin α6 chain, VLA-6 α chain, platelet gpIc

**Workshop**
N/A

**Description**

CD49f is the 125 kDa integrin α6 chain which associates noncovalently with the integrin β1 subunit (CD29) and with the integrin β4 (CD104) chain to form, respectively, the very late antigen-6 (VLA-6) and α6β4 integrin heterodimers. VLA-6 is expressed on thymocytes, T lymphocytes, monocytes, and platelets. CD49f/CD29 expression is upregulated on activated T lymphocytes and memory T cells. VLA-6 serves as the laminin receptor on platelets, monocytes, and T cells. VLA-6-mediated binding to laminin provides a costimulatory signal to T cells for activation and proliferation.

**Applications**

- **FC** – Quality tested
- **IHC-FS** – Reported in literature
- **IHC-PS** – Reported in literature
- **IP** – Reported in literature

**Working Dilutions**

**Flow Cytometry**

- Purified (UNLB) antibody ≤ 1 μg/10^6 cells
- FITC and PE conjugates 10 μL/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.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 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 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- 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 (M)SDS.

References