Species Reactivity: Human

Specificity: Detects human Integrin α5/CD49e in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 50% cross-reactivity with recombinant mouse (rm) Integrin α5 and less than 5% cross-reactivity with recombinant human Integrin αM, rmIntegrin α2, rmIntegrin α4, and rmIntegrin αE is observed.

Source: Polyclonal Goat IgG

Purification: Antigen Affinity-purified

Immunogen: Mouse myeloma cell line NS0-derived recombinant human Integrin α5/CD49e Phe42-Tyr995 Accession # P08648

Endotoxin Level: <0.10 EU per 1 μg of the antibody by the LAL method.

Formulation: Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>RECOMMENDED CONCENTRATION</th>
<th>SAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
<td>See Below</td>
</tr>
<tr>
<td>Flow Cytometry</td>
<td>2.5 μg/10⁶ cells</td>
<td>K562 human chronic myelogenous leukemia cell line</td>
</tr>
<tr>
<td>CyTOF-ready</td>
<td>Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.</td>
<td></td>
</tr>
<tr>
<td>Adhesion Blockade</td>
<td>The adhesion of K562 human chronic myelogenous leukemia cells (5 x 10⁶ cells/well) to immobilized bovine Fibronectin (Catalog # 1030-FN, 10 μg/mL, 100 μL/well) was maximally inhibited (80-100%) by 20 μg/mL of the antibody.</td>
<td></td>
</tr>
</tbody>
</table>

DATA

Western Blot: Detection of Human Integrin α5/CD49e by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line. PVDF Membrane was probed with 1 μg/mL of Goat Anti-Human Integrin α5/CD49e Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1864) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Integrin α5/CD49e at approximately 135 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution: Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The α5 subunit, also known as CD49e and VLA-5a subunit, forms a heterodimer with the Integrin β1 subunit (CD29). Integrin α5β1 is a receptor for fibronectin and neural adhesion molecule L1.