**DESCRIPTION**

**Species Reactivity**  
Mouse

**Specificity**  
Detects mouse Integrin α9 in direct ELISAs and Western blots. In direct ELISAs, less than 25% cross-reactivity with recombinant human Integrin α9 is observed and less than 5% cross-reactivity with recombinant mouse Integrin α3 and α4 is observed.

**Source**  
Polyclonal Goat IgG

**Purification**  
Antigen Affinity-purified

**Immunogen**  
Mouse myeloma cell line NS0-derived recombinant mouse Integrin α9  
Try31-Val979  
Accession # NP_598482

**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>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 μg/mL Recombinant Mouse Integrin α9</td>
</tr>
<tr>
<td>Flow Cytometry</td>
<td>2.5 μg/10^6 cells D3 mouse embryonic stem cell line</td>
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<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>
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</table>

**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**

Integrin α9 is a 150 kDa type I transmembrane glycoprotein that is widely expressed and is found on smooth muscle, keratinocytes, skeletal muscle and hepatocytes. It principally associates with the β1 integrin. α9β1 binds to VEGF-C, VEGF-D, and osteopontin. The 951 amino acid (aa) extracellular domain of mouse integrin α9 contains three β-propellor repeats and multiple PheGly-GlyAlaPro repeats. A potential proteolytic cleavage site in human α9 ECD is absolutely conserved in mouse α9 ECD (Arg566-Val567). The ECD of mouse integrin α9 shares 95% and 89% aa sequence identity to rat and human integrin α9, respectively.