**DESCRIPTION**

**Species Reactivity** Human/Mouse

**Specificity** Detects human and mouse Integrin α11 in direct ELISAs and Western blots. In direct ELISAs, does not cross-react with recombinant human Integrin α2, α10, αX, or αL.

**Source** Monoclonal Rat IgG1 Clone # 396214

**Purification** Protein A or G purified from hybridoma culture supernatant

**Immunogen** Chinese hamster ovary cell line CHO-derived recombinant human Integrin α11 Phe23-Pro1142 (Leu972Pro, Val1030 del) Accession # EAW77820

**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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<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
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**DATA**

**Western Blot**

Detection of Human Integrin α11 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and human heart tissue. PVDF membrane was probed with 2 μg/mL of Human/Mouse Integrin α11 Monoclonal Antibody (Catalog # MAB4235) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Integrin α11 at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute at 0.5 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 α11 (ITGA11) is a 150 kDa transmembrane glycoprotein that associates with the Integrin β1/CD29 chain to form a receptor for collagen I and IX. ITGA11 is most highly expressed in adult cardiac and uterine smooth muscle and developing myocytes. The extracellular region contains seven FG-GAP repeats and one VWF-C domain. Within the extracellular domain, human and mouse ITGA11 share 90% aa sequence identity.