**Species Reactivity** Human

**Specificity** Detects human Integrin α11 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse Integrin α11 is observed and less than 1% cross-reactivity with recombinant human (rh) Integrin α1 and rhIntegrin α2 is observed.

**Source** Polyclonal Goat IgG

**Purification** Antigen Affinity-purified

**Immunogen** Chinese hamster ovary cell line CHO-derived recombinant human Integrin α11 Phe23-Pro1141 (Leu524Arg) Accession # NP_001004439

**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 A549 human lung carcinoma cell line. PVDF Membrane was probed with 1 μg/mL of Goat Anti-Human Integrin α11 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4235) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Integrin α11 at approximately 155 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**

Integrin α11 (ITGA11) is a 155-160 kDa member of the integrin α chain family of molecules. It preferentially forms a cell surface heterodimer with β1 integrin. In particular, it is further classified as a collagen-binding group member, showing a preference for binding to collagen I and II. ITGA11 is expressed by embryonic mesenchymal cells in and around areas that incorporate, or utilize collagen during development. In adult tissue, fibroblasts express ITGA11, and collagen:ITGA11 interaction likely contributes to wound contraction and closure. Mature human ITGA11 is an 1167 amino acid (aa) type I transmembrane glycoprotein. It contains a large 1120 aa extracellular domain (ECD) (aa 23-1142) plus a short 24 aa cytoplasmic region. The ECD shows 7 x 60 aa FG-Gap repeats that generate β-propellers (aa 24-650) with an intervening I domain that binds collagen (aa 154-345). Over aa 23-1142, human ITGA11 shares 90% aa identity with mouse ITGA11.