Mouse Podoplanin Antibody
Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3244

**DESCRIPTION**
Species Reactivity: Mouse
Specificity: Detects mouse Podoplanin in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human Podoplanin is observed.
Source: Polyclonal Goat IgG
Purification: Antigen Affinity-purified
Immunogen: Mouse myeloma cell line NS0-derived recombinant mouse Podoplanin Gln21-Lys133; Accession # Q546R8
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>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>0.25 μg/mL</td>
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<tr>
<td>Immunohistochemistry</td>
<td>5-15 μg/mL</td>
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</tbody>
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**DATA**

**Western Blot**
Detection of Mouse Podoplanin by Western Blot. Western blot shows lysates of mouse lung tissue. PVDF membrane was probed with 0.25 μg/mL of Goat Anti-Mouse Podoplanin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3244) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Podoplanin at approximately 35-42 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Immunohistochemistry**
Podoplanin in Mouse Kidney. Podoplanin was detected in perfusion fixed frozen sections of mouse kidney using Goat Anti-Mouse Podoplanin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3244) at 15 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

**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**
Podoplanin, also known as T1 alpha (T1α), is a mucin type transmembrane glycoprotein with extensive O-glycosylation. It is specifically expressed by lymphatic endothelial cells but not blood vascular endothelial cells. In addition, non-endothelial cells in numerous normal tissues also express the protein. Within the region used as the immunogen, mouse Podoplanin shares 73.5% and 29% amino acid sequence homology with rat and human Podoplanin, respectively.