

## DESCRIPTION

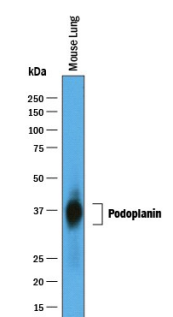
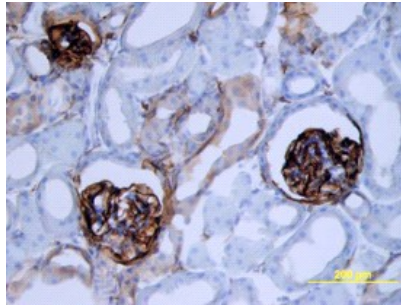
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Podoplanin in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human Podoplanin is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Podoplanin Gln21-Lys133 Accession # Q546R8
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.25 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p> 	<p><b>Detection of Mouse Podoplanin by Western Blot.</b> 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.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>Podoplanin in Mouse Kidney.</b> 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 &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for <a href="#">Chromogenic IHC Staining of Frozen Tissue Sections</a>.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.