

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects recombinant mouse Podoplanin in Direct ELISA
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 1090106
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line, NS0-derived mouse Podoplanin Gln21-Lys133 Accession # Q62011
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

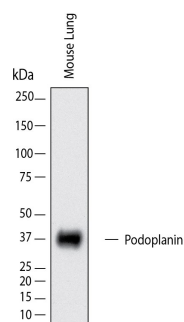
#### APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	Mouse lung tissue
<b>Immunohistochemistry</b>	3-25 µg/mL	Immersion fixed paraffin-embedded sections of mouse kidney and lung

**DATA**

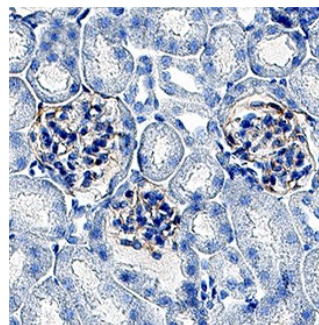
**Western Blot**



**Detection of Mouse Podoplanin by Western Blot.**

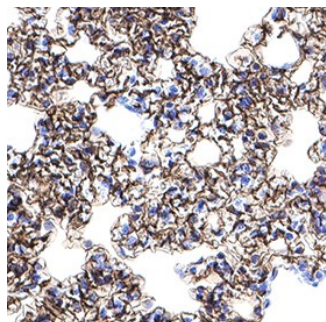
Western Blot shows lysates of mouse lung tissue. PVDF membrane was probed with 1 µg/ml of Rat Anti-Mouse Podoplanin Monoclonal Antibody (Catalog # MAB11608) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Podoplanin at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

**Immunohistochemistry**



**Detection of Podoplanin in Mouse Kidney.** Podoplanin was detected in immersion fixed paraffin-embedded sections of mouse kidney using Rat Anti-Mouse Podoplanin Monoclonal Antibody (Catalog # mab11608) at 5 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005) and counterstained with hematoxylin (blue). Specific staining was localized to the cell membrane of podocytes. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

**Immunohistochemistry**



**Detection of Podoplanin in Mouse Lung.** Podoplanin was detected in immersion fixed paraffin-embedded sections of mouse lung using Rat Anti-Mouse Podoplanin Monoclonal Antibody (Catalog # mab11608) at 5 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005) and counterstained with hematoxylin (blue). Specific staining was localized to the cell membrane of alveoli. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
<b>Shipping</b>	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
<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.