

DESCRIPTION

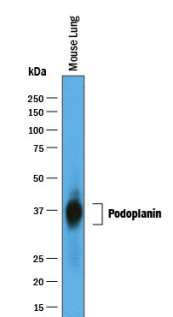
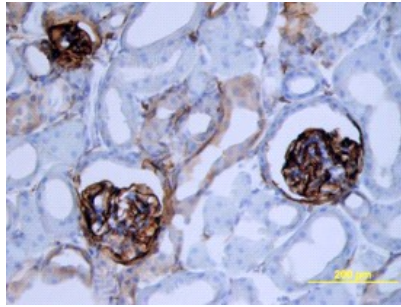
Species Reactivity	Mouse
Specificity	Detects mouse Podoplanin in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human Podoplanin is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived 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.

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

DATA

<p>Western Blot</p> 	<p>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.</p>	<p>Immunohistochemistry</p>  <p>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.</p>
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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. <ul style="list-style-type: none"> ● 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.