

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse podoplanin protein in Direct ELISA.
Source	Recombinant Monoclonal Rabbit IgG Clone # 3349D
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line, NS0-derived mouse Podoplanin Gln21-Lys133 Accession # Q62011
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

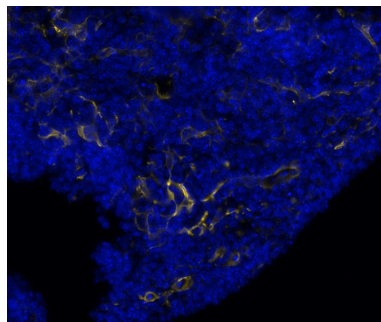
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Mouse lung tissue
Immunohistochemistry	0.25-25 µg/mL	Immersion fixed paraffin-embedded sections of mouse kidney
COMET	0.1-0.5 µg/mL	Immersion fixed paraffin-embedded sections of mouse thymus, kidney and lung

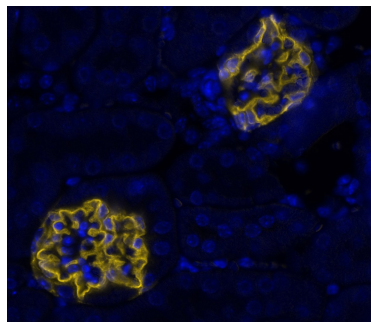
DATA

Multiplex Immunofluorescence



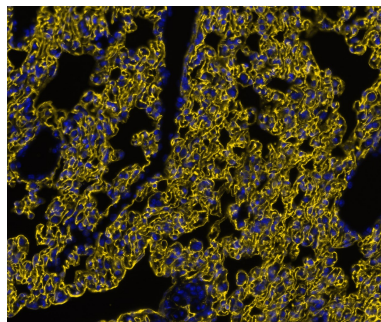
Detection of PDPN in Mouse Thymus via seqIF™ staining on COMET™ PDPN was detected in immersion fixed paraffin-embedded sections of mouse thymus using Rabbit Anti-Mouse PDPN Monoclonal Antibody (Catalog # MAB11813) at 0.1 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; Eprelia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 555 Goat anti-Rabbit IgG Secondary Antibody at 1:100 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR555RB) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the membrane. Protocol available in [COMET™ Panel Builder](#).

Multiplex Immunofluorescence



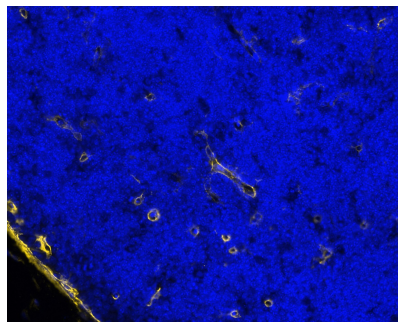
Detection of PDPN in Mouse Kidney via seqIF™ staining on COMET™ PDPN was detected in immersion fixed paraffin-embedded sections of mouse kidney using Rabbit Anti-Mouse PDPN Monoclonal Antibody (Catalog # MAB11813) at 0.1 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; Eprelia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 555 Goat anti-Rabbit IgG Secondary Antibody at 1:100 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR555RB) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the membrane. Protocol available in [COMET™ Panel Builder](#).

Multiplex Immunofluorescence



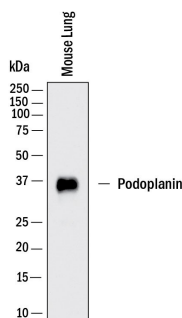
Detection of PDPN in Mouse Lung via seqIF™ staining on COMET™ PDPN was detected in immersion fixed paraffin-embedded sections of mouse lung using Rabbit Anti-Mouse PDPN Monoclonal Antibody (Catalog # MAB11813) at 0.1 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 555 Goat anti-Rabbit IgG Secondary Antibody at 1:100 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR555RB) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the membrane. Protocol available in [COMET™ Panel Builder](#).

Multiplex Immunofluorescence



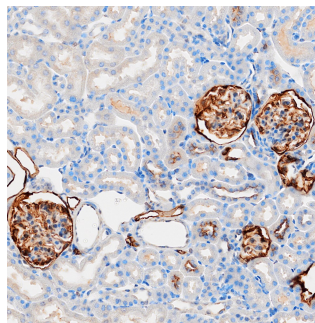
Detection of PDPN in Mouse Thymus via seqIF™ staining on COMET™ PDPN was detected in immersion fixed paraffin-embedded sections of mouse thymus using Rabbit Anti-Mouse PDPN Monoclonal Antibody (Catalog # MAB11813) at 0.5 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 647 Goat anti-Rabbit IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647RB) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the membrane. Protocol available in [COMET™ Panel Builder](#).

Western Blot



Detection of Mouse Podoplanin by Western Blot. Western Blot shows lysates of mouse lung. PVDF membrane was probed with 0.1 µg/ml of Rabbit Anti-Mouse Podoplanin Monoclonal Antibody (Catalog # MAB11813) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # Catalog # HAF008). A specific band was detected for Podoplanin at approximately 36 kDa (as indicated). This experiment was conducted under reducing conditions and using [Western Blot Buffer Group 1](#).

Immunohistochemistry



Immersion fixed paraffin-embedded sections of mouse kidney Podoplanin was detected in immersion fixed paraffin-embedded sections of mouse kidney using Rabbit Anti-Mouse Podoplanin Monoclonal Antibody (Catalog # MAB11813) at 1 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 # Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # Catalog # HAF008) and counterstained with hematoxylin (blue). Specific staining was localized to the membrane. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	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.
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.