

# Anti-Podoplanin Antibody [JM31-21]

ET1703-61



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P, mIHC
<b>Molecular Wt:</b>	Predicted band size: 17 kDa
<b>Clone number:</b>	JM31-21

**Description:** Puromycin aminonucleoside nephrosis (PAN) is a rat model for human minimal change nephropathy. During PAN, severe proteinuria is induced that is paralleled by a reduced expression of a rat podocyte protein, named podoplanin. Podoplanin, also known as glycoprotein 38 (gp38) is a type I membrane protein. Podoplanin localizes in stromal cells of peripheral lymphoid tissue and thymic epithelial cells. As a regulator of the lymphatic endothelium, podoplanin probably plays a role in maintaining the unique shape of podocytes.

**Immunogen:** Synthetic peptide within Human Podoplanin aa 35-75 / 162.

**Positive control:** Human lung tissue lysates, human lung tissue, human breast tissue.

**Subcellular location:** Cell junction, Cell membrane, Cell projection, Cytoplasm, Membrane.

**Database links:** SwissProt: Q86YL7 Human

**Recommended Dilutions:**

<b>WB</b>	1:500-1:1,000
<b>IHC-P</b>	1:50-1:400
<b>mIHC</b>	1:500

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

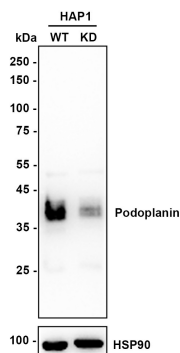
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## Images

**Fig1:** Western blot analysis of Podoplanin on different lysates with Rabbit anti-Podoplanin antibody (ET1703-61) at 1/1,000 dilution.

Lane 1: HAP1-parental cell lysate

Lane 2: HAP1-Podoplanin KD cell lysate



Lysates/proteins at 10 µg/Lane.

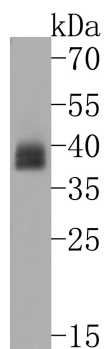
Predicted band size: 17 kDa

Observed band size: 37 kDa

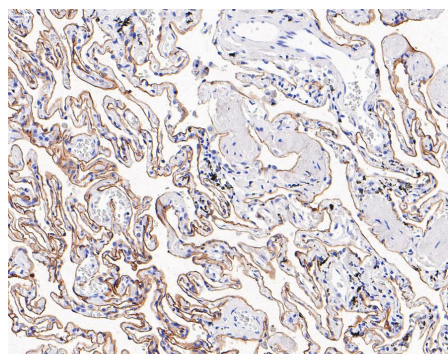
Exposure time: 40 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1703-61) at 1/1,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** Western blot analysis of Podoplanin on human lung tissue lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (ET1703-61, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human lung tissue with Rabbit anti-Podoplanin antibody (ET1703-61) at 1/400 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1703-61) at 1/400 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

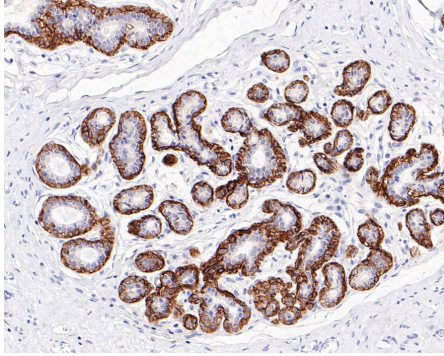
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**Fig4:** Immunohistochemical analysis of paraffin-embedded human breast tissue with Rabbit anti-Podoplanin antibody (ET1703-61) at 1/400 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1703-61) at 1/400 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Xu Y et al. Polypeptide N-Acetylgalactosaminyltransferase 13 Contributes to Neurogenesis via Stabilizing the Mucin-type O-Glycoprotein Podoplanin. *J Biol Chem* 291:23477-23488 (2016).
2. Xia Y et al. Podoplanin associates with adverse postoperative prognosis of patients with clear cell renal cell carcinoma. *Cancer Sci* 107:1243-9 (2016).

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