

For Research Use Only

Podoplanin Polyclonal antibody

Catalog Number: 11629-1-AP **16 Publications**



Basic Information

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| Catalog Number: 11629-1-AP | GenBank Accession Number: BC022812 | Purification Method: Antigen affinity purification |
| Size: 600 ug/ml | GeneID (NCBI): 10630 | Recommended Dilutions: WB 1:500-1:2000 |
| Source: Rabbit | UNIPROT ID: Q86YL7 | IHC 1:400-1:1600 |
| Isotype: IgG | Full Name: podoplanin | IF-P 1:50-1:500 |
| Immunogen Catalog Number: AG2201 | Calculated MW: 17 kDa, 25 kDa | |
| | Observed MW: 43 kDa | |

Applications

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|---|--|
| Tested Applications: WB, IHC, IF-P, ELISA | Positive Controls: WB : HEK-293 cells, human placenta tissue |
| Cited Applications: WB, IHC, IF | IHC : human tonsillitis tissue, human appendicitis tissue |
| Species Specificity: human | IF-P : human placenta tissue, |
| Cited Species: human, rat | |

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Podoplanin was identified as a 43 kDa glycoprotein found in the cell membranes of glomerular epithelial cells (podocyte) (PMID: 9327748). It is a lymphatic marker because the expression of podoplanin has been detected in lymphatic but not blood vascular endothelium, and is useful as the marker of tumor-associated Lymphangiogenesis. Podoplanin has a function in developing testis, most likely at the level of cell-cell interactions among pre-meiotic germ cells and immature Sertoli cells. It may be involved in cell migration and/or actin cytoskeleton organization. When expressed in keratinocytes, PDPN induces changes in cell morphology with transfected cells showing an elongated shape, numerous membrane protrusions, major reorganization of the actin cytoskeleton, increased motility and decreased cell adhesion. It is required for normal lung cell proliferation and alveolus formation at birth. PDPN induces platelet aggregation. It does not have any effect on folic acid or amino acid transport and does not function as a water channel or as a regulator of aquaporin-type water channels. The antibody is specific to Podoplanin.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|--------------|-------------|
| Yao Ding | 34492084 | PLoS Pathog | WB,IHC |
| Wenkun Fu | 33995679 | Theranostics | IHC |
| Xiaomin Zhang | 24527067 | Oncol Lett | IHC |

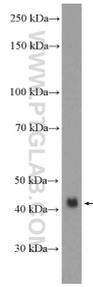
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

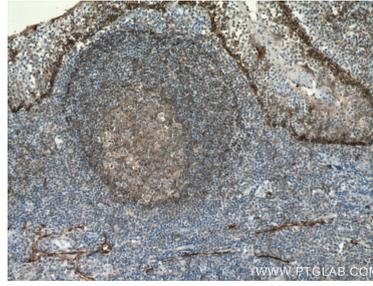
For technical support and original validation data for this product please contact:
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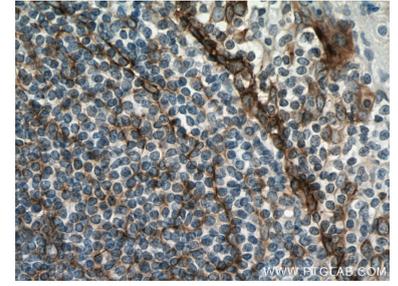
Selected Validation Data



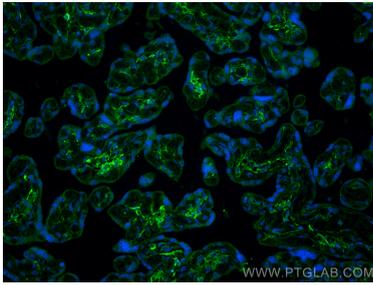
HEK-293 cells were subjected to SDS PAGE followed by western blot with 11629-1-AP (Podoplanin antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



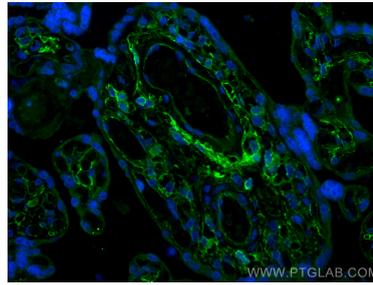
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 11629-1-AP (Podoplanin antibody) at dilution of 1:800 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 11629-1-AP (Podoplanin antibody) at dilution of 1:800 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using Podoplanin antibody (11629-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using Podoplanin antibody (11629-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).