

## Podocalyxin Antibody [clone 3D3] (V2227)

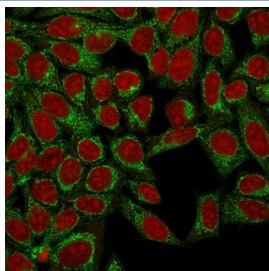
| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V2227-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 100 ug |
| V2227-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 20 ug  |
| V2227SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free  | 100 ug |
| V2227IHC-7ML   | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml   |



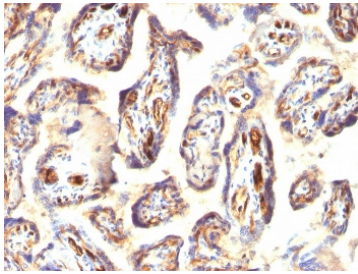
Citations (9)

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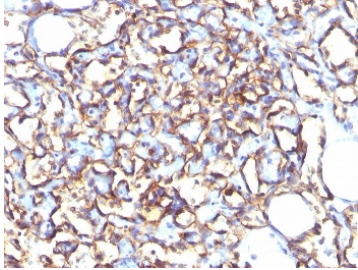
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human, Rat  |
| <b>Format</b>             | Purified  |
| <b>Clonality</b>          | Monoclonal (mouse origin)   |
| <b>Isotype</b>            | Mouse IgG1, kappa   |
| <b>Clone Name</b>         | 3D3   |
| <b>Purity</b>             | Protein G affinity chromatography   |
| <b>Gene ID</b>            | 5420  |
| <b>Localization</b>       | Cell surface and cytoplasmic  |
| <b>Applications</b>       | Flow Cytometry : 0.5-1ug/10 <sup>6</sup> cells<br>Immunofluorescence : 1-2ug/ml<br>Western Blot : 0.5-1ug/ml<br>Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT |
| <b>Limitations</b>        | This Podocalyxin antibody is available for research use only.   |



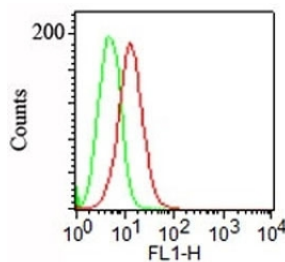
Immunofluorescent staining of human HeLa cells with Podocalyxin antibody (clone 3D3, green) and Reddot nuclear stain (red).



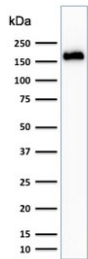
IHC staining of FFPE human placenta with Podocalyxin antibody (clone 3D3). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



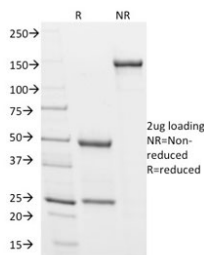
IHC staining of FFPE human angiosarcoma with Podocalyxin antibody (clone 3D3). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



FACS staining of human NCCIT cells with Podocalyxin antibody (clone 3D3, red) and an isotype control antibody (green).



Western blot testing of human HeLa cell lysate with Podocalyxin antibody (clone 3D3). Expected molecular weight: 55-165 kDa depending on level of glycosylation.



SDS-PAGE analysis of purified, BSA-free Podocalyxin antibody (clone 3D3) as confirmation of integrity and purity.

## Description

Podocalyxin is a member of the CD34 transmembrane sialomucin family. It is over-expressed on the podocyte foot projections and plays essential roles in kidney development and homeostasis, blood filtration and urine formation. It is also expressed on vascular endothelia, hematopoietic progenitors and a subset of neurons. Overexpression may be linked to more aggressive tumor behavior. Podocalyxin antibody can identify podocytes in the urine (podocyturia) that may indicate glomerular disease, pre-eclampsia, and other kidney pathology.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and

substrates may require the Podocalyxin antibody to be titrated up or down for optimal performance.

## Immunogen

A human recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain was used as the immunogen for the Podocalyxin antibody.

## Storage

Store the Podocalyxin antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

## Alternate Names

PODXL, PDXL, GCTM-2; Gp200; PCLP1; Pcx

## References (3)