

**Mouse Anti-Podocalyxin/PODXL [3D3]: MC0919, MC0919RTU7**

**Intended Use:** For Research Use Only

**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 of podocalyxin 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.

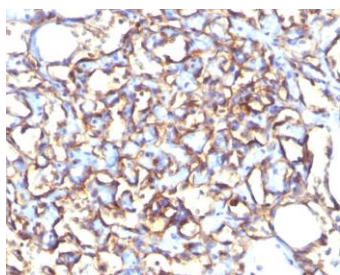
**Specifications:**

Clone: 3D3  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, rabbit, rat  
 Immunogen: Recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of human podocalyxin  
 Localization: Cytoplasm, some membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., IF, IP, WB  
 Package:

Description	Catalog No.	Size
Podocalyxin/PODXL [3D3] Concentrated	MC0919	1 ml
Podocalyxin/PODXL [3D3] Prediluted	MC0919RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Angiosarcoma, breast, prostate, liver, pancreatic, kidney, HeLa, Raji, Jurkat cells  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human Angiosarcoma stained with anti-Podocalyxin using DAB

**References:**

1. Podocalyxin-like protein promotes gastric cancer progression through interacting with RUN and FYVE domain containing 1 protein. Zhi Q, et al. Cancer Sci 110:118-134, 2019.
2. Early podocyte injury and elevated levels of urinary podocyte-derived extracellular vesicles in swine with metabolic syndrome: role of podocyte mitochondria. Zhang LH, et al. Am J Physiol Renal Physiol 317:F12-F22, 2019.
3. Dissecting the Global Dynamic Molecular Profiles of Human Fetal Kidney Development by Single-Cell RNA Sequencing. Wang P, et al. Cell Rep 24:3554-3567.e3, 2018.

Doc. 100-MC0919  
Rev. A