

# Product Datasheet

## Podocalyxin Like Antibody (3D3) NBP2-25219

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-25219****Podocalyxin Like Antibody (3D3)**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	3D3
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA

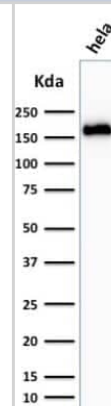
<b>Product Description</b>	
<b>Description</b>	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33108)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	5420
<b>Gene Symbol</b>	PODXL
<b>Species</b>	Human, Mouse, Rat, Rabbit
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 27771514).
<b>Marker</b>	Hematopoietic Stem Cell Marker
<b>Specificity/Sensitivity</b>	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.
<b>Immunogen</b>	A recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of human Podocalyxin Like (Uniprot: O00592)

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunoprecipitation 1-2 ug/500 ug protein, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen 0.5-1ug/ml, Flow (Intracellular)
<b>Application Notes</b>	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

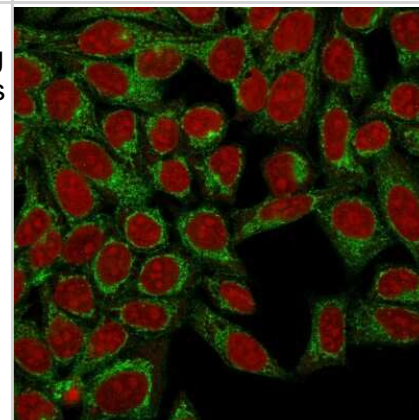


## Images

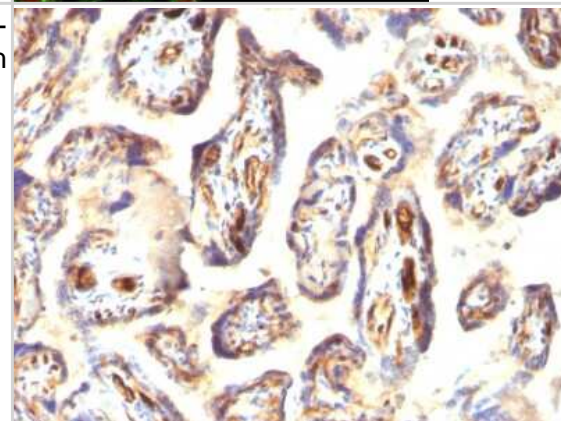
Western Blot: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Western Blot Analysis of HeLa cell lysate using Podocalyxin Like Antibody (3D3).



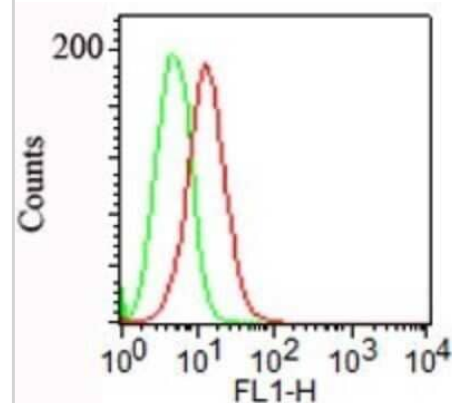
Immunocytochemistry/Immunofluorescence: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Confocal Immunofluorescence of HeLa cells using Podocalyxin Like Antibody (3D3) labeled with CF488 (Green); Red Dot is used to label the nuclei.



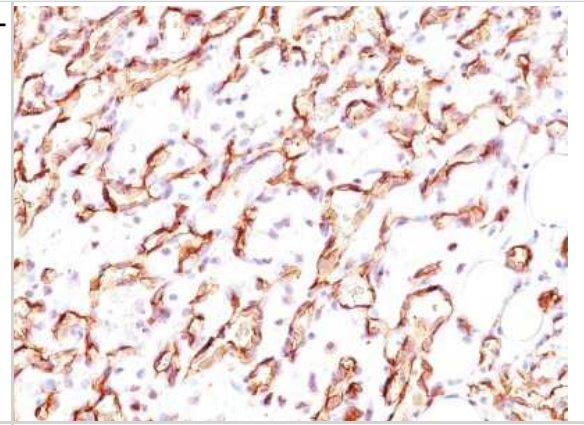
Immunohistochemistry-Paraffin: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Formalin-fixed, paraffin-embedded human Placenta stained with Podocalyxin Like Antibody (3D3).



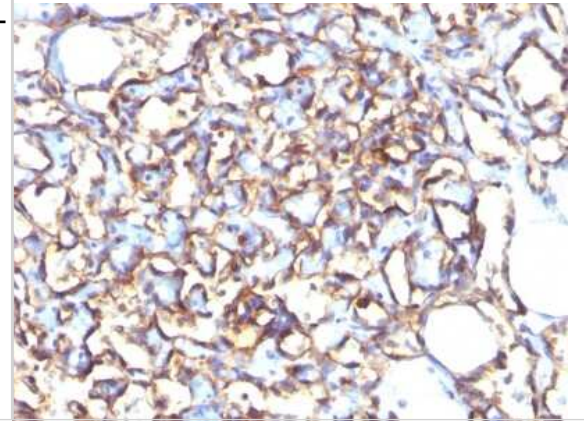
Flow Cytometry: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Surface staining of NCCIT cells using Podocalyxin antibody at 1 ug/10<sup>6</sup> cells. A FITC-conjugated anti mouse Ig secondary antibody was used along with this antibody .



Immunohistochemistry-Paraffin: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Formalin-paraffin angiosarcoma stained with Podocalyxin Ab (3D3).



Immunohistochemistry-Paraffin: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Formalin-fixed, paraffin-embedded human Angiosarcoma stained with Podocalyxin Like Antibody (3D3).



## Publications

Marthinus W Myburgh, Lorenzo Favaro, Willem H van Zyl, Marinda Viljoen-Bloom Engineered yeast for the efficient hydrolysis of polylactic acid. *Bioresource technology* 2023-04-18 [PMID: 37011843]

Dwivedi O, Barreiro K, Käräjämäki A et al. Genome-wide mRNA profiling in urinary extracellular vesicles reveals stress gene signature for diabetic kidney disease *iScience* 2023-04-01 [PMID: 37216114]

Yuvashree, M, Ganesh, R N Et al. Potential application of nanoemulsified garlic oil blend in mitigating the progression of type 2 diabetes-mediated nephropathy in Wistar rats. *3 Biotech* 2020-06-01 [PMID: 32523866] (ELISA, Rat)

Barreiro K, Dwivedi OP, Leparo G, et al. Comparison of urinary extracellular vesicle isolation methods for transcriptomic biomarker research in diabetic kidney disease *Journal of extracellular vesicles* 2020-12-01 [PMID: 33437407] (WB, Human)

Puhka M, Nordberg ME, Valkonen S et al. KeepEX, a simple dilution protocol for improving extracellular vesicle yields from urine. *Eur J Pharm Sci* 2016-10-19 [PMID: 27771514] (WB, Mouse)

Siddiqi FS, Chen L, Advani SL et al. CXCR4 promotes renal tubular cell survival in male diabetic rats: implications for ligand inactivation in the human kidney. *Endocrinology*. 2014-12-30 [PMID: 25549045] (IHC-P, Human)

### Details:

Podocalyxin antibody used for Immunohistochemistry on formalin-fixed paraffin-embdded human kidney tissue.

Kershaw DB, Beck SG, Wharram BL et al. Molecular cloning and characterization of human podocalyxin-like protein. Orthologous relationship to rabbit PCLP1 and rat podocalyxin. *J Biol Chem*. 1997-06-20 [PMID: 9188463] (IHC-Fr, WB, IP, Human, Rat, Rabbit)

### Details:

Podocalyxin Antibody clones cited: 2A4 (ABX-166A), 4F10 (ABX-165A), and 3D3 (ABX-164A): IHC (frozen): Fig 4 (kidney cortex) WB: Fig 5 (podocalyxin human and rabbit fusion proteins), Fig 7A-D (human, rabbit and rat renal glomerular extracts) IP: Fig 7E-F (

Sasseti C, Tangemann K, Singer MS et al. Identification of podocalyxin-like protein as a high endothelial venule ligand for L-selectin: parallels to CD34. *J Exp Med*. 1998-06-15 [PMID: 9625756] (IHC-Fr, WB)

### Details:

IHC (frozen): Fig 1 (tonsil), Fig 2 (tonsil, appendix, lymph node) WB: Fig 4A & 6 (purified podocalyxin from tonsil) IP: Fig 4B (purified posoxcalyxin from tonsil) Parallel plate flow chamber analysis: Fig 7 (lymphocytes, Jurkat). Refer to the publication

Schopperle WM, Kershaw DB, DeWolf WC. Human embryonal carcinoma tumor antigen, Gp200/GCTM-2, is podocalyxin. *Biochem Biophys Res Commun*. 2003-01-10 [PMID: 12504081]





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### **Products Related to NBP2-25219**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB110-41503PEP	Podocalyxin Like Antibody Blocking Peptide

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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