

# Product Datasheet

## Podocalyxin Like Antibody (3D3) - Azide and BSA Free NBP2-33108

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-33108**

Podocalyxin Like Antibody (3D3) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3D3
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS

Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-25219).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	5420
Gene Symbol	PODXL
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 27771514).
Marker	Hematopoietic Stem Cell Marker
Specificity/Sensitivity	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.
Immunogen	A recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of human Podocalyxin Like (Uniprot: O00592)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2ug/ml, Immunoprecipitation 0.5-1ug/500ug protein lysate, Immunohistochemistry-Paraffin 0.5-1ug/ml, Immunohistochemistry-Frozen 0.5-1ug/ml, Flow (Intracellular), CyTOF-ready

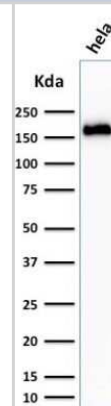


**Application Notes**

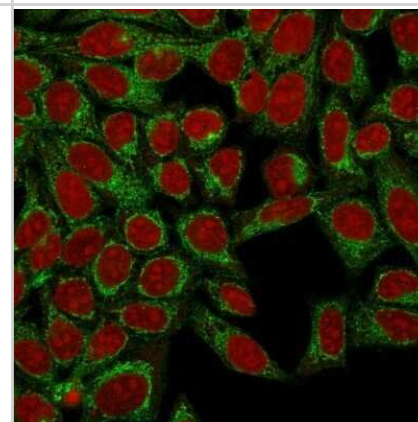
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

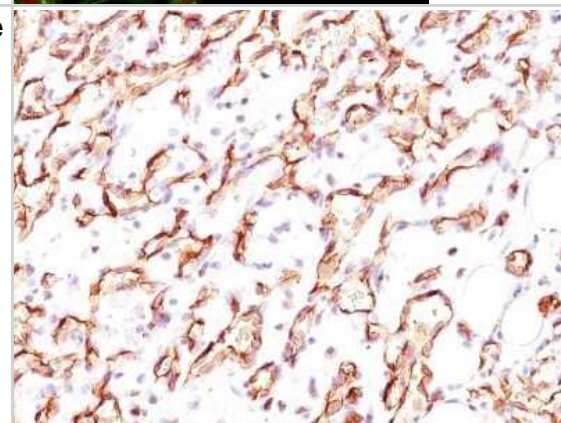
Western Blot: Podocalyxin Like Antibody (3D3) - Azide and BSA Free [NBP2-33108] - Western Blot Analysis of HeLa cell lysate using Podocalyxin Like Antibody (3D3).



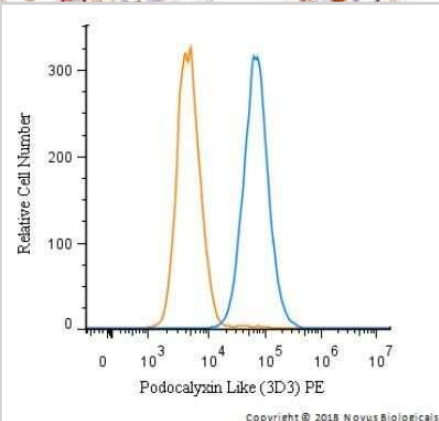
Immunocytochemistry/Immunofluorescence: Podocalyxin Like Antibody (3D3) - Azide and BSA Free [NBP2-33108] - Confocal Immunofluorescence of HeLa cells using Podocalyxin Like Antibody (3D3) labeled with CF488 (Green); Red Dot is used to label the nuclei.



Immunohistochemistry-Paraffin: Podocalyxin Like Antibody (3D3) - Azide and BSA Free [NBP2-33108] - Formalin-paraffin angiosarcoma stained with Podocalyxin Ab (3D3).

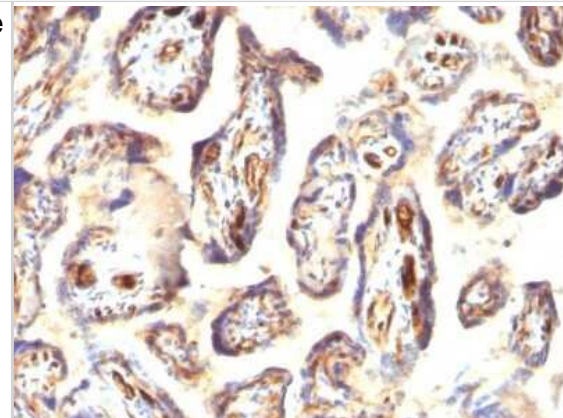


Flow (Intracellular): Podocalyxin Like Antibody (3D3) - Azide and BSA Free [NBP2-33108] - An intracellular stain was performed on HeLa cells with Podocalyxin Like Antibody (3D3) NBP2-33108PE and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin. Image using the Azide and BSA Free form of this antibody.

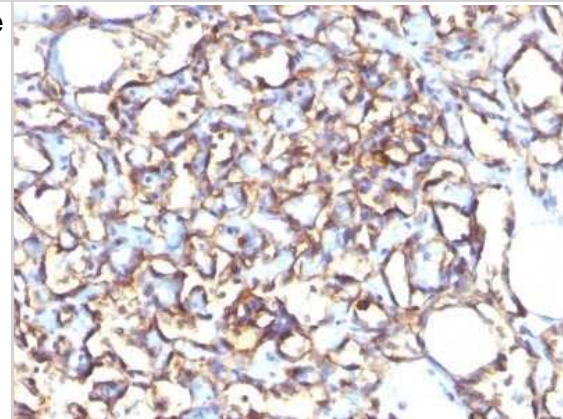


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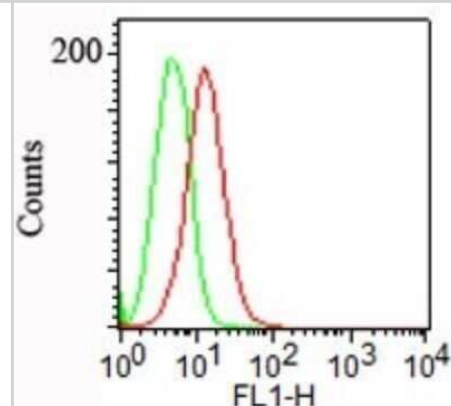
Immunohistochemistry-Paraffin: Podocalyxin Like Antibody (3D3) - Azide and BSA Free [NBP2-33108] - Formalin-fixed, paraffin-embedded human Placenta stained with Podocalyxin Like Antibody (3D3).



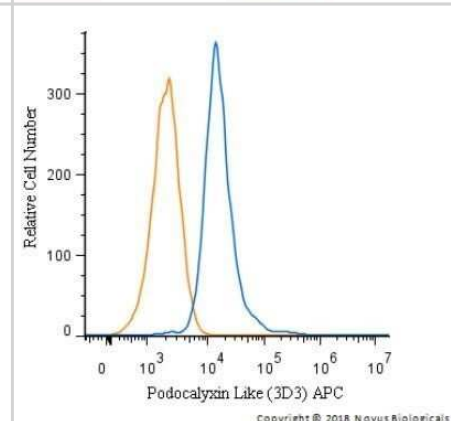
Immunohistochemistry-Paraffin: Podocalyxin Like Antibody (3D3) - Azide and BSA Free [NBP2-33108] - Formalin-fixed, paraffin-embedded human Angiosarcoma stained with Podocalyxin Like Antibody (3D3).



Flow Cytometry: Podocalyxin Like Antibody (3D3) - Azide and BSA Free [NBP2-33108] - 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 .



Flow (Intracellular): Podocalyxin Like Antibody (3D3) - Azide and BSA Free [NBP2-33108] - An intracellular stain was performed on HeLa cells with Podocalyxin Like Antibody (3D3) NBP2-33108APC and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to allophycocyanin.



## Publications

Musante L, Bontha Sv, La Salvia S et Al. Rigorous characterization of urinary extracellular vesicles (uEVs) in the low centrifugation pellet - a neglected source for uEVs Sci Rep 2020-02-28 [PMID: 32111925]

### Details:

Antibody was used in Western Blot analysis to verify that subcellular contaminants were not interfering with detecting target bio-markers.





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### **Products Related to NBP2-33108**

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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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