

Product Datasheet

Podocalyxin Like Antibody (3D3) NBP2-25219

Unit Size: 0.1 mg

Store at 4C.

www.novusbio.com



technical@novusbio.com

Publications: 9

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-25219

Updated 10/23/2024 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-25219



NBP2-25219

Podocalyxin Like Antibody (3D3)

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

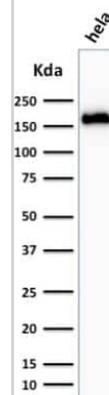
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33108) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
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
Recommended Dilutions	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)
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.

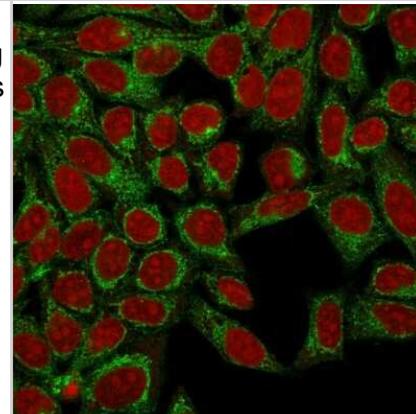


Images

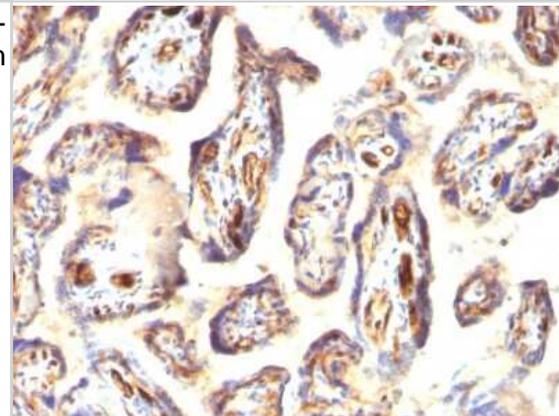
Western Blot: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Western Blot Analysis of HeLa cell lysate using Podocalyxin Like Antibody (3D3).



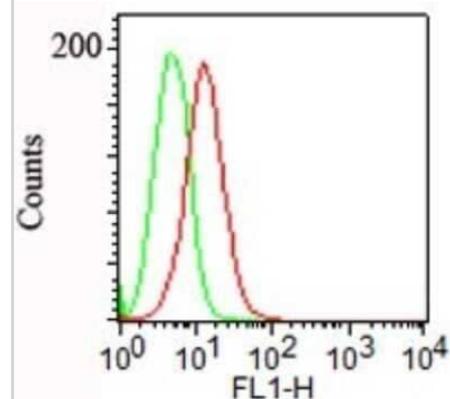
Immunocytochemistry/Immunofluorescence: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Confocal Immunofluorescence of HeLa cells using Podocalyxin Like Antibody (3D3) labeled with CF488 (Green); Red Dot is used to label the nuclei.



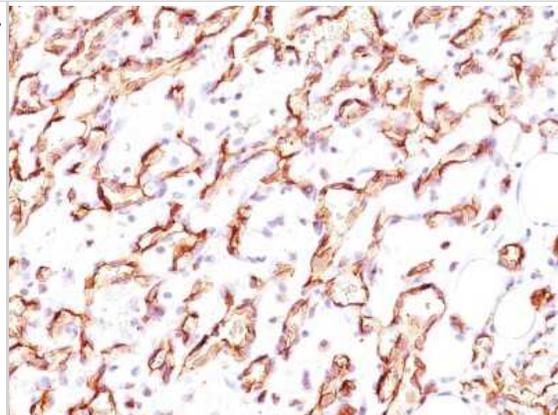
Immunohistochemistry-Paraffin: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Formalin-fixed, paraffin-embedded human Placenta stained with Podocalyxin Like Antibody (3D3).



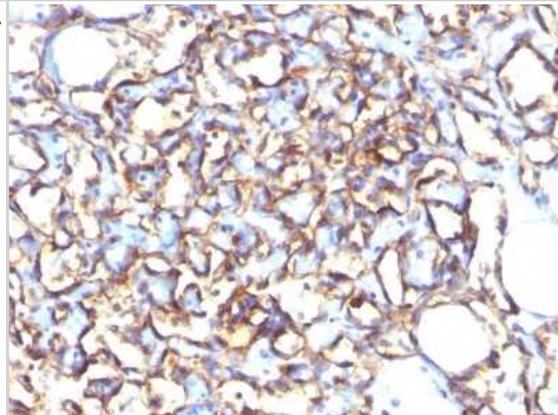
Flow Cytometry: Podocalyxin Like Antibody (3D3) [NBP2-25219] - Surface staining of NCCIT cells using Podocalyxin antibody at 1 ug/10⁶ cells. A FITC-conjugated anti mouse Ig secondary antibody was used along with this antibody .



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, Leparc 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 (

Sassetti 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]



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-25219

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

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-25219

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

