bio-techne[®] RDSYSTEMS

Human Podocalyxin Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1658

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Podocalyxin in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Podocalyxin Ser23-Arg427 Accession # AAB61574
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

	Recommended Concentration	Sample	
Western Blot	1 µg/mL	See Below	
Immunohistochemistry	5-15 μg/mL	See Below	
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.		
Knockout Validated	Podocalyxin/PODXL is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in Podocalyxin/PODXL knockout HeLa cell line.		



Data

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Western Blot	Detection of Human Podocalyxin by Western Blot. Western blot shows lysates of human kidney tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Podocalyxin Antigen Affinity- purified Polyclonal Antibody (Catalog # AF-1658) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # HAF-109). A specific band was detected for Podocalyxin at approximately 130 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.	Immunohistochemistry	Podocalyxin in Human Kidney. Podocalyxin was detected in immersion fixed paraffin- embedded sections of human kidney using 5 µg/mL Goat Anti- Human Podocalyxin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1658) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP- DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CT5008) and counterstained with hematoxylin (blue). Specific labeling was localized to podocytes in glomeruli. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.
Knockout Validated	Western Plat Shows Human		

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.		
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months20 to -70 °C under sterile conditions after reconstitution. 		

shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

BACKGROUND

Podocalyxin, also known as Podocalyxin-like protein-1 (PCLP1 or PODXL), is a type I transmembrane glycoprotein. It belongs to the CD34/Podocalyxin family of sialomucins that share structural similarity and sequence homology. Podocalyxin is a major sialoprotein in the podocytes of the kidney glomerulus and is also expressed by both endothelium and multipotent hematopoietic progenitors. It has been identified as a novel cell surface marker for hemangioblasts, the common precursors of hematopoietic and endothelial cells (1, 2).

References:

- 1. Li, J. et al. (2001) DNA Seq. 12:407.
- 2. Hara, T. et al. (1999) Immunity 11:567.

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