



## Recombinant Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker) Antibody

Rabbit Monoclonal Antibody [Clone PODXL/16918R]

Catalog No	Format	Size
5420-RBM8-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5420-RBM8-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5420-RBM8-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	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 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

<b>Clone</b>	PODXL/16918R
<b>Immunogen</b>	Recombinant fragment (around aa310-447) of the human Podocalyxin protein (exact sequence is proprietary)
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG / Kappa
<b>Mol. Weight of Antigen</b>	58.63kDa
<b>Cellular Localization</b>	Apical cell membrane, Cell projection, Filopodium, Lamellipodium, Membrane, Membrane raft, Microvillus, Ruffle
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Glomerular epithelium cell (podocyte)

\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker) Antibody

#### Specificity & Comments

Involved in the regulation of both adhesion and cell morphology and cancer progression. Functions as an anti-adhesive molecule that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion. Acts as a pro-adhesive molecule, enhancing the adherence of cells to immobilized ligands, increasing the rate of migration and cell-cell contacts in an integrin-dependent manner. Induces the formation of apical actin-dependent microvilli. Involved in the formation of a preapical plasma membrane subdomain to set up initial epithelial polarization and the apical lumen formation during renal tubulogenesis. Plays a role in cancer development and aggressiveness by inducing cell migration and invasion through its interaction with the actin-binding protein EZR. Affects EZR-dependent signaling events, leading to increased activities of the MAPK and PI3K pathways in cancer cells.

#### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

#### Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

#### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.