

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

Mouse Monoclonal Antibody [Clone PODXL/2185]

Catalog No	Format	Size
5420-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5420-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5420-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

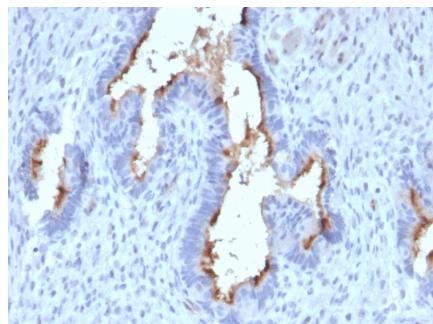
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

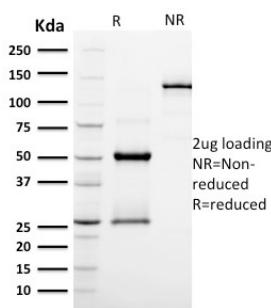
Clone	PODXL/2185
Gene Name	PODXL
Immunogen	Recombinant fragment of human Podocalyxin (around aa 310-447) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	165-170kDa
Cellular Localization	Apical cell membrane, Cell projection, Filopodium, Lamellipodium, Membrane, Membrane raft, Microvillus, Ruffle
Species Reactivity	Human
Positive Control	Breast, HeLa, Kidney (IHC), Liver, Pancreatic, prostate, Raji or Jurkat cells. Angiosarcoma

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

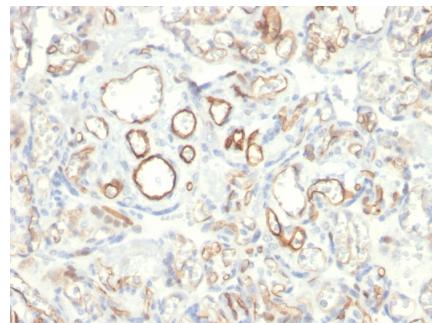
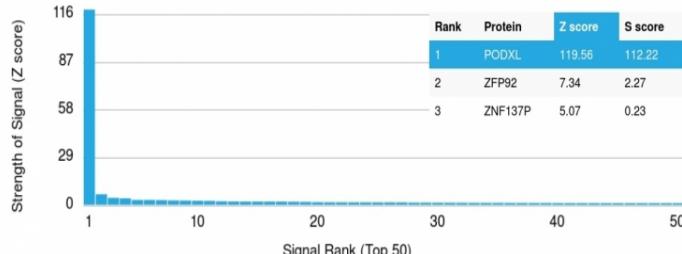
### Product Images for Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker) Antibody



Formalin-fixed, paraffin-embedded human Endometrium stained with Podocalyxin Mouse Monoclonal Antibody (PODXL/2185).



SDS-PAGE Analysis of Purified EGFR Mouse Monoclonal Antibody (GFR/2596). Confirmation of Integrity and Purity of Antibody.



Formalin-fixed, paraffin-embedded human Placenta stained with Podocalyxin Mouse Monoclonal Antibody (PODXL/2185).

Analysis of Protein Array containing more than 19,000 full-length human proteins using Podocalyxin Mouse Monoclonal Antibody (PODXL/2185). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations ( $SD, \text{Ås}$ ) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of  $SD, \text{Ås}$ ) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

## Specificity & Comments

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.

## 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 Purified from Bioreactor Concentrate by Protein A/G. 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.

## Research Areas

Endothelial Cell Marker, Stem Cell Differentiation