

Mouse Podocalyxin (PODXL) Monoclonal Antibody | anti-PODXL antibody

Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker)

CATALOG # AAA214675	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

Podocalyxin (PODXL); Monoclonal Antibody; Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker); PODXL; PDXL; GCTM-2; Gp200; PCLP1; Pcx; Podocalyxin-like protein 1; anti-PODXL antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1
Clone Number	PODXL/2185
Specificity	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.
Form/Format	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.
Sequence Length	558
Applicable Applications for anti-PODXL antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment of human Podocalyxin (around aa 310-447)
Cellular Localization	Cell Surface and Cytoplasmic
Hu-chromosome Location	7q32.3
Positive Control	HeLa, Raji, Jurkat cells, Angiosarcoma, Breast, Prostate, Liver, Pancreatic, Kidney

IMAGES



Application Data

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 HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) 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.



SDS-PAGE

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



IHC (Immunohistochemistry)

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

ADDITIONAL INFORMATION

References	1. Kershaw DB et. al. J Biol Chem 272:15708-15714 (1997). Sassetti C et. al. J Exp Med 187:1965-1975. 3. Nielsen JS et. al. J Am Soc Nephrol 20:1669-1676 (2009).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66277202
NCBI GeneID	5420
NCBI Accession #	NP_001018121.1
NCBI GenBank Nucleotide #	NM_001018111.2
UniProt Accession #	O00592; Q52LZ7; Q53ER6; A6NHX8
Molecular Weight	165-170kDa
NCBI Official Full Name	podocalyxin isoform 1
NCBI Official Synonym Full Names	podocalyxin like
NCBI Official Symbol	PODXL
NCBI Official Synonym Symbols	PC; PCLP; Gp200; PCLP-1
NCBI Protein Information	podocalyxin
UniProt Protein Name	Podocalyxin
UniProt Gene Name	PODXL
UniProt Synonym Gene Names	PCLP; PCLP1; PC; PCLP-1

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