Datasheet for ABIN675264

anti-PODXL antibody (AA 451-558)

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Overview

Quantity:	100 µL
Target:	PODXL
Binding Specificity:	AA 451-558
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PODXL antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Podocalyxin
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	PODXL
Alternative Name:	Podocalyxin (PODXL Products)

Target Details

Background:	Synonyms: PC, PCLP, Gp2, PCLP-1, Podocalyxin, GCTM-2 antigen, Podocalyxin-like protein 1, PODXL, PCLP1 Background: Involved in the regulation of both adhesion and cell morphology and cancer progression. Function 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 inital 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.
Gene ID:	5420
UniProt:	O00592
Pathways:	Tube Formation

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

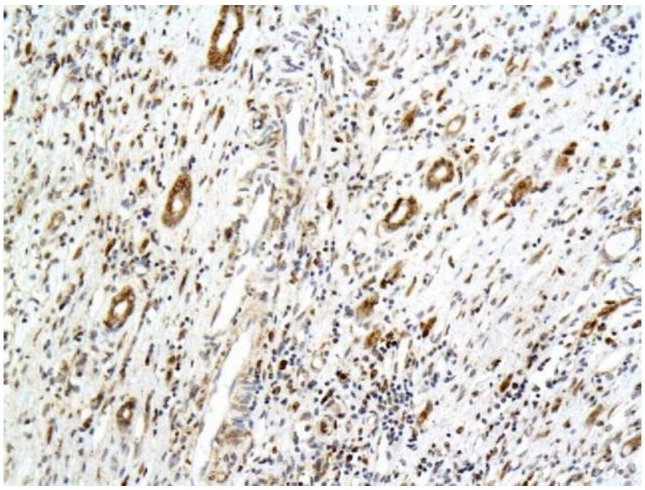
Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

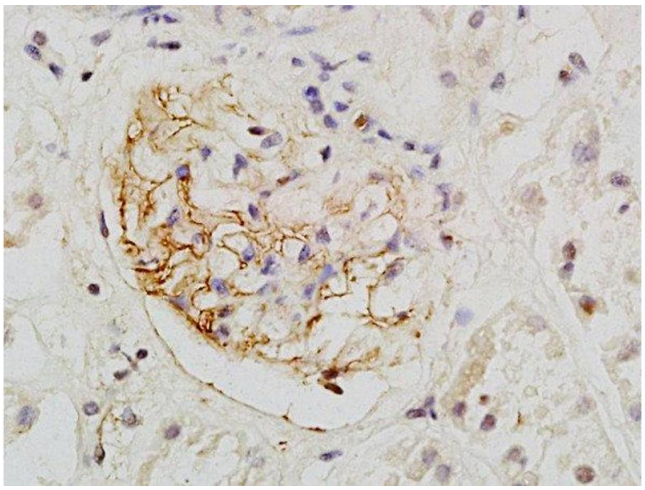
Product cited in:	Xing, Ye, Chen, Hu, Chen: "Hydrochloride pioglitazone protects diabetic rats against podocyte injury through preserving glomerular podocalyxin expression." in: **Arquivos brasileiros de endocrinologia e metabologia**, Vol. 58, Issue 6, pp. 630-9, (2014) (PubMed).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat kidney tissue labeled with Anti-PCX/PODXL Polyclonal Antibody, Unconjugated (ABIN675264) followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human kidney labeled with Rabbit Anti-PCX/PODXL Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining