

Rabbit Anti-Podocalyxin/PODXL [EP248]: RM0299, RM0299RTU7

Intended Use: For Research Use Only

Description: 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.

Specifications

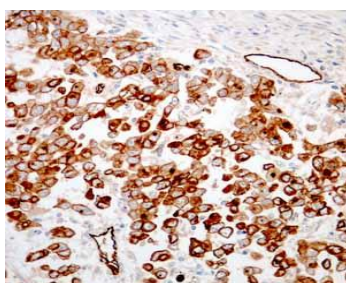
Clone:	EP248
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Localization:	Cytoplasm, membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

Description	Catalog No.	Size
Podocalyxin/PODXL Concentrated	RM0299	1 ml
Podocalyxin/PODXL Prediluted	RM0299RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Breast cancer, kidney
Concentrated Dilution:	50-200
Pretreatment:	EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human Gastric carcinoma stained with anti-PODXL using DAB

References:

1. Podocalyxin-like protein promotes gastric cancer progression through interacting with RUN and FYVE domain containing 1 protein. Zhi Q, et al. Cancer Sci 110:118-134, 2019.
2. Early podocyte injury and elevated levels of urinary podocyte-derived extracellular vesicles in swine with metabolic syndrome: role of podocyte mitochondria. Zhang LH, et al. Am J Physiol Renal Physiol 317:F12-F22, 2019.
3. Dissecting the Global Dynamic Molecular Profiles of Human Fetal Kidney Development by Single-Cell RNA Sequencing. Wang P, et al. Cell Rep 24:3554-3567.e3, 2018.

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Rev. A