

## Podocalyxin Antibody [clone 2A4] (V2792)

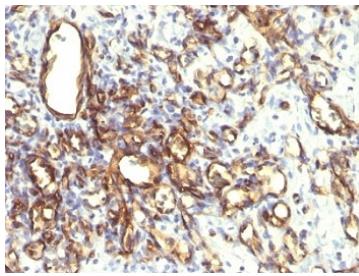
Catalog No.	Formulation	Size
V2792-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2792-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2792SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2792IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml



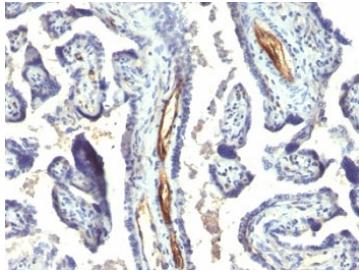
Citations (3)

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Rat
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgM
<b>Clone Name</b>	2A4
<b>Purity</b>	PEG precipitation
<b>UniProt</b>	O00592
<b>Gene ID</b>	5420
<b>Localization</b>	Cell surface and cytoplasmic
<b>Applications</b>	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT Western Blot : 1-2ug/ml
<b>Limitations</b>	This Podocalyxin antibody is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human angiosarcoma stained with Podocalyxin antibody (2A4).



Formalin-fixed, paraffin-embedded human placenta stained with Podocalyxin antibody (2A4).

## Description

Podocalyxin/PODXL 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.

## Application Notes

Optimal dilution of the Podocalyxin antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

A recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of human PODXL was used as the immunogen for the Podocalyxin antibody.

## Storage

Store the Podocalyxin antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

