

Podocalyxin Monoclonal Antibody

Catalog No: #42047

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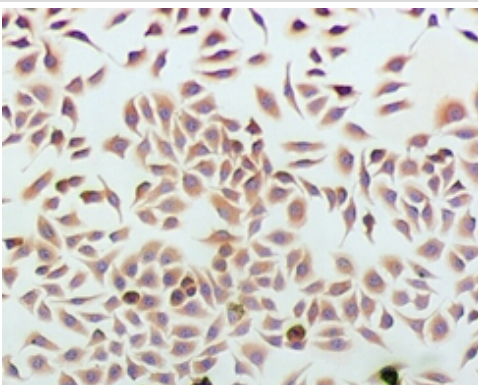
Description

Product Name	Podocalyxin Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	protein G purified
Applications	IHC
Species Reactivity	Hu
Specificity	specific for PODXL denatured and native forms
Immunogen Type	protein
Immunogen Description	Recombinant PODXL Protein
Target Name	Podocalyxin
Other Names	Podocalyxin, GCTM-2 antigen, Gp200, PC, PODXL, PCLP, PCLP1
Accession No.	Swiss-Prot#: O00592
Uniprot	O00592
GeneID	5420;
Concentration	1.0mg/mL
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

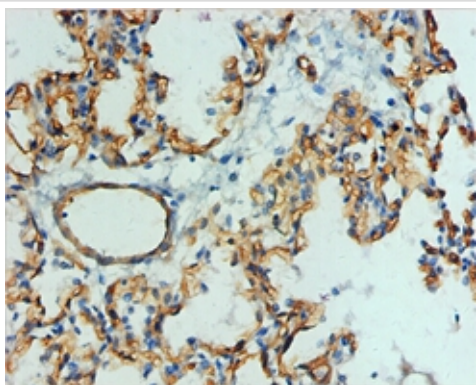
Application Details

Immunohistochemistry: 1:20 - 1:200

Images



Immunohistochemical analysis of A549 using #42047 at dilution of 1:1000.



Immunohistochemical analysis of paraffin-embedded Human lung tissue using #42047 at dilution of 1:200.

Background

Podocalyxin, a sialoglycoprotein, is thought to be the major constituent of the glycocalyx of podocytes. It is a member of the CD34 family of transmembrane sialomucins. It coats the secondary foot processes of the podocytes. It is negatively charged and thus functions to keep adjacent foot processes separated, thereby keeping the urinary filtration barrier open. This function is further supported by knockout studies in mice which reveal an essential role in podocyte morphogenesis. Podocalyxin is also upregulated in a number of cancers and is frequently associated with poor prognosis. Sialylated, O-glycosylated glycoforms of podocalyxin expressed by colon carcinoma cells possess L-selectin and E-selectin binding activity, and may be pivotal to the metastatic spread of colon carcinoma cells.

Note: This product is for in vitro research use only