ARG56071
anti-PODXL antibody [4F10]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [4F10] recognizes PODXL
Tested Reactivity	Hu, Rat
Tested Application	FACS, ICC/IF, IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	4F10
Isotype	IgM
Target Name	PODXL
Species	Human
Immunogen	Recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of Human PODXL.
Conjugation	Un-conjugated
Alternate Names	Gp200; GCTM-2 antigen; PCLP; Podocalyxin; PC; PCLP-1; Podocalyxin-like protein 1

Application Instructions

Application table

Application	Dilution
FACS	0.5 - 1 µg/10^6 cells
ICC/IF	1 - 2 µg/ml
IHC-P	0.5 - 1 µg/ml

Application Note

IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

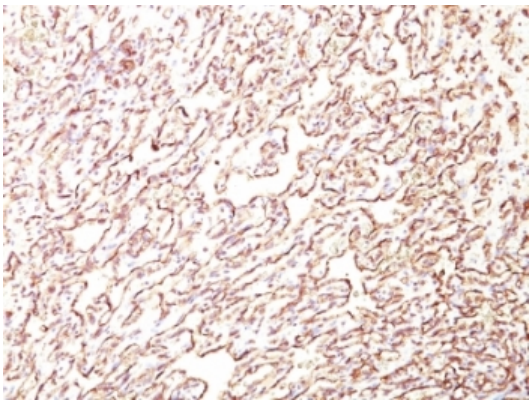
Form	Liquid
Purification	PEG precipitation
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 192181 Rat GeneID: 5420 Human Swiss-port # O00592 Human Swiss-port # Q9WTQ2 Rat
Gene Symbol	PODXL
Gene Full Name	podocalyxin-like
Background	This gene encodes a member of the sialomucin protein family. The encoded protein was originally identified as an important component of glomerular podocytes. Podocytes are highly differentiated epithelial cells with interdigitating foot processes covering the outer aspect of the glomerular basement membrane. Other biological activities of the encoded protein include: binding in a membrane protein complex with Na+/H+ exchanger regulatory factor to intracellular cytoskeletal elements, playing a role in hematopoetic cell differentiation, and being expressed in vascular endothelium cells and binding to L-selectin. [provided by RefSeq, Jul 2008]
Function	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. [UniProt]
Calculated Mw	59 kDa
PTM	N- and O-linked glycosylated. Sialoglycoprotein (By similarity).
Cellular Localization	Cell surface and cytoplasmic

Images



ARG56071 anti-PODXL antibody [4F10] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human angiosarcoma stained with ARG56071 anti-PODXL antibody [4F10].