

Anti-PODXL Antibody [2-A4]

M1403-5



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|----------------------------|-------------------------------------------|
| Product Type: | Mouse monoclonal IgG1, primary antibodies |
| Species reactivity: | Human |
| Applications: | IF-Cell, IHC-P |
| Molecular Wt: | 58kDa |
| Clone number: | 2-A4 |

Description: 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 is involved in the regulation of both adhesion and cell morphology and cancer progression. It functions as an anti-adhesive molecule that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion. Podocalyxin 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. 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.

Immunogen: Recombinant protein within Human PODXL aa 1-500 / 558.

Positive control: HCT116

Subcellular location: Apical cell membrane

Database links: SwissProt: O00592 Human

Recommended Dilutions:

IF-Cell 1:200-1:500

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein G affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

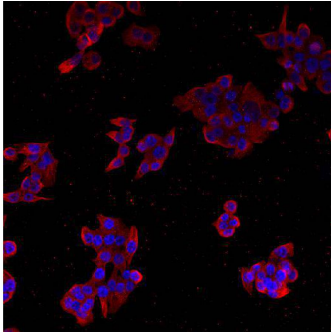


Fig1: ICC staining PODXL in HCT116 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "Podocalyxin increases the aggressive phenotype of breast and prostate cancer cells in vitro through its interaction with ezrin." Sizemore S., Cicek M., Sizemore N., Ng K.P., Casey G. *Cancer Res.* 67:6183-6191(2007)
2. "Expression of podocalyxin enhances the adherence, migration, and intercellular communication of cells." Larrucea S., Butta N., Arias-Salgado E.G., Alonso-Martin S., Ayuso M.S., Parrilla R. *Exp. Cell Res.* 314:2004-2015(2008)

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