

Purified anti-mouse Podocalyxin Antibody

Catalog# / Size	107902 / 100 µg
Clone	10B9
Regulatory Status	RUO
Other Names	Podocalyxin
Isotype	Rat IgG1, κ
Description	Podocalyxin is sialomucin, most closely related to CD34 and endoglycan, expressed by kidney podocytes, hematopoietic progenitors, vascular endothelia, and a subset of neurons. It regulates both cell adhesion and cell morphology and plays an essential role in the formation of podocyte foot processes.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	OSM-dependent endothelial-like cell line, LO
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-F - Verified
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per million cells in 100 µL volume. For immunohistochemistry on frozen tissue sections, a concentration range of 2.0 - 5.0 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none">1. Onitsuka, I., <i>et al.</i>, 2010. <i>Gastroenterology</i>, 138:1525-1535.2. Doyonnas, R., <i>et al.</i>, 2005. <i>Blood</i>, 105:4170-4178.3. Minegishi, N., <i>et al.</i>, 2003. <i>Blood</i>, 102:896-905.4. Minehata, K., <i>et al.</i>, 2002. <i>Blood</i>, 99:2360-2368.5. Doyonnas, R., <i>et al.</i>, 2001. <i>J. Exp. Med.</i>, 194:13-28.6. Hara, T., <i>et al.</i>, 1999. <i>Immunity</i>, 11:567-578.
RRID	AB_2904281 (BioLegend Cat. No. 107902)

Antigen Details

Structure	Single-pass type I membrane protein, sialoglycoprotein
Distribution	Apical cell membrane, membrane raft
Function	Cell adhesion, cell migration
Interaction	Forms a complex with EZR and SLC9A3R2.
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cancer Biomarkers, Cell Biology, Cell Proliferation and

Antigen References

1. Refaeli I, *et al.* 2020. *Scientific Reports* 10:9419
2. Economou C, *et al.* 2004. *J Cell Sci* (2004) 117 (15): 3281–94.
3. Cait J, *et al.* 2019. *Proc Natl Acad Sci.* 116 (10) 4518-4527
4. Doyonnas R, *et al.* 2005. *Blood.* 105(11):4170-8
5. Zhang H, *et al.* 2014. *Stem Cells.* 32(1):191-203

Gene ID

[27205](#)

Related Protocols

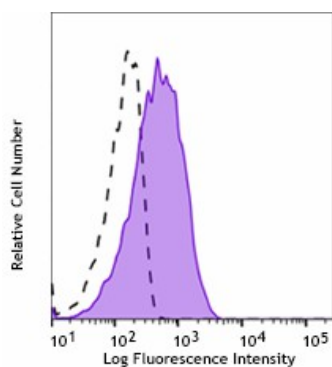
[Immunohistochemistry Protocol for Frozen Sections](#)

[Cell Surface Flow Cytometry Staining Protocol](#)

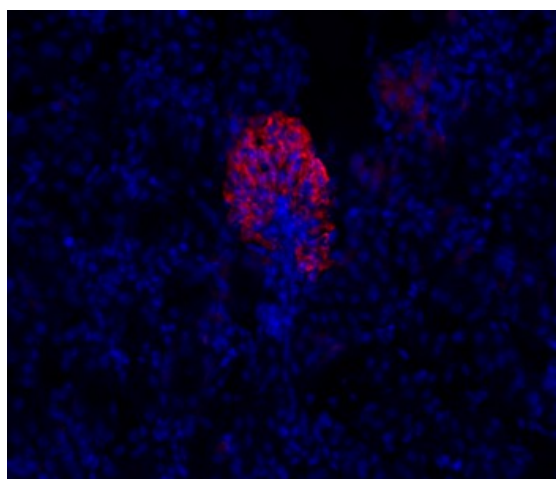
Other Formats

Purified anti-mouse Podocalyxin, PE anti-mouse Podocalyxin

Product Data



Mouse endothelial cell line, bEnd.3, was stained with purified anti-mouse Podocalyxin (filled histogram) or rat IgG1, κ isotype control (open histogram) followed by anti-rat IgG PE.



C57BL/6 mouse frozen kidney section was fixed with 4% paraformaldehyde (PFA) for 10 minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. The section was stained with 5 μ g/mL purified anti-mouse Podocalyxin followed by anti-mouse IgG Alexa Fluor® 555. Nuclei were counterstained with DAPI (blue). The image was captured by a 20X objective.

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