

PE anti-mouse Podocalyxin Antibody

Catalog# / Size	107903 / 25 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 and conjugated with PE under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze .
Application	FC - Quality tested
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. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References	<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.
(PubMed link indicates BioLegend citation)	
RRID	AB_2922457 (BioLegend Cat. No. 107903)

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 Viability, Immunology
Antigen References	<ol style="list-style-type: none"> 1. Refaeli I, <i>et al.</i> 2020. <i>Scientific Reports</i> 10:9419 2. Economou C, <i>et al.</i> 2004. <i>J Cell Sci</i> (2004) 117 (15): 3281–94. 3. Cait J, <i>et al.</i> 2019. <i>Proc Natl Acad Sci.</i> 116 (10) 4518-4527 4. Doyonnas R, <i>et al.</i> 2005. <i>Blood.</i> 105(11):4170-8 5. Zhang H, <i>et al.</i> 2014. <i>Stem Cells.</i> 32(1):191-203
Gene ID	27205

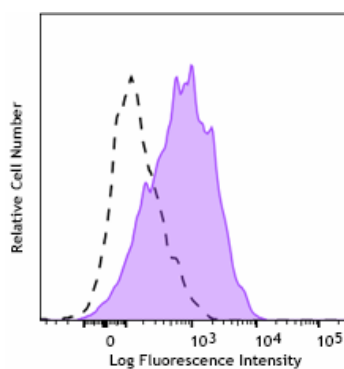
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse Podocalyxin, PE anti-mouse Podocalyxin

Product Data



bEND.3 cells were stained with anti-mouse Podocalyxin (clone 10B9) PE (filled histogram) or rat IgG1, κ isotype control PE (open histogram).

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