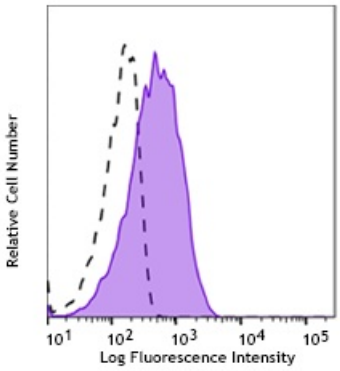
SONY

Product Data Sheet

Purified anti-mouse Podocalyxin

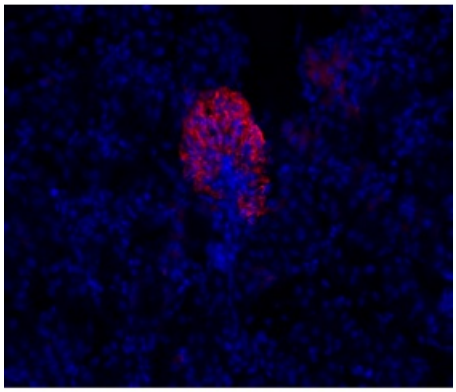
Catalog # / Size:	1139510 / 100 µg
Clone:	10B9
Isotype:	Rat IgG1, κ
Immunogen:	OSM-dependent endothelial-like cell line, LO
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Concentration:	0.5 mg/mL



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.

Applications:

Applications:	Flow Cytometry, Immunohistochemistry-F
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.



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 µg/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.

Application References:

1. Onitsuka, I., *et al.,* 2010. *Gastroenterology,* 138:1525-1535.
2. Doyonnas, R., *et al.,* 2005. *Blood,* 105:4170-4178.
3. Minegishi, N., *et al.,* 2003. *Blood,* 102:896-905.
4. Minehata, K., *et al.,* 2002. *Blood,* 99:2360-2368.
5. Doyonnas, R., *et al.,* 2001. *J. Exp. Med.,* 194:13-28.
6. Hara, T., *et al.,* 1999. *Immunity,* 11:567-578.

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.

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