

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Podocalyxin in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant mouse Podocalyxin or recombinant human Endoglycan is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 222328
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Podocalyxin Ser23-Arg427 Accession # AAB61574
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

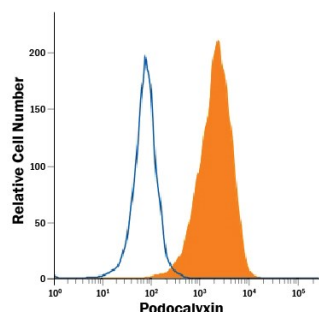
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	5 µL/10 ⁶ cells	See Below

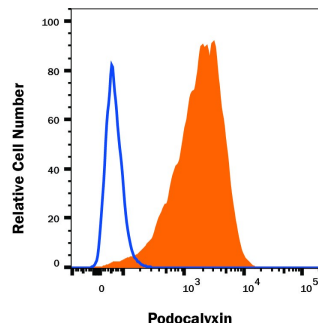
DATA

Flow Cytometry



Detection of Podocalyxin in BG01V Human Embryonic Stem Cells by Flow Cytometry. BG01V human embryonic stem cells were stained with Mouse Anti-Human Podocalyxin Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB1658G, filled histogram) or isotype control antibody (Catalog # IC003G, open histogram). View our protocol for [Staining Membrane-associated Proteins](#).

Flow Cytometry



Detection of Podocalyxin in Induced pluripotent stem cells (iPSCs) by Flow Cytometry Induced pluripotent stem cells (iPSCs) were stained with Mouse Anti-Human Podocalyxin Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB1658G, filled histogram) or isotype control antibody (Catalog # IC003G, open histogram). View our protocol for [Staining Membrane-associated Proteins](#).

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Podocalyxin, also known as Podocalyxin-Like Protein-1 (PCLP1 or PODXL), is a type I transmembrane glycoprotein. It belongs to the CD34/Podocalyxin family of sialomucins that share structural similarity and sequence homology (1). Podocalyxin is a major sialoprotein in the podocytes of the kidney glomerulus and is also expressed by both endothelium and multipotent hematopoietic progenitors (2). It has been identified as a novel cell surface marker for hemangioblasts, the common precursors of hematopoietic and endothelial cells.

References:

- Li, J. *et al.* (2001) DNA Seq. **12**:407.
- Hara, T. *et al.* (1999) Immunity **11**:567.

PRODUCT SPECIFIC NOTICES

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