

Datasheet for ABIN5541389 **anti-PODXL antibody**



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Overview

Quantity:	0.1 mg
Target:	PODXL
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PODXL antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	CHO cell expressing full length human Podocalyxin/PCLP1
Clone:	53D11
Isotype:	IgG2a
Specificity:	This antibody reacts with human Podocalyxin/PCLP1.
Purification:	Protein A agarose

Target Details

Target:	PODXL
Alternative Name:	podocalyxin,podxl (PODXL Products)
Background:	Recent studies with avian embryos and murine embryonic stem cells have suggested that hematopoietic cells are derived from hemangioblasts, the common precursors of

Target Details

hematopoietic and endothelial cells. Hara et al. molecularly cloned podocalyxin-like protein 1 (PCLP1) as a novel surface marker for endothelial-like cells in the AGM (aorta-gonadomesonephros) region of mouse embryos, where long-term repopulating hematopoietic stem cells (LTR-HSCs) are known to arise. PCLP1 + CD45⁺ cells in the AGM region incorporated acetylated low-density lipoprotein and produced both hematopoietic and endothelial cells when cocultured with OP9 stromal cells. Moreover, multiple lineages of hematopoietic cells were generated in vivo when PCLP1 + CD45⁺ cells were injected into neonatal liver of busulfan-treated mice. Today it is reported that the PCLP1 is identical with the Podocalyxin.

UniProt: [O00592](#)

Pathways: [Tube Formation](#)

Application Details

Application Notes: Flow cytometry : 10-20 µg/mL (final concentration). For details see protocol below. Immunohistochemistry : Clone 53D11 has been reported by customer to stain Podocalyxin in Formalin-Fixed, Paraffin-Embedded human kidney tissue at an antibody concentration of 10 µg/mL.

Protocol: Flow cytometric analysis for floating cells We usually use Fisher tubes or equivalents as reaction tubes for all step described below. 1) Wash the cells 3 times with washing buffer [PBS containing 2 % fetal calf serum (FCS) and 0.1 % NaN₃]. 2) Resuspend the cells with washing buffer (5x10⁶ cells/mL). 3) Add 50 µL of the cell suspension into each tube, and centrifuge at 500 x g for 1 minute at room temperature (20~25 °C). Remove supernatant by careful aspiration. 4) Add 10 µL of Clear Back (human Fc receptor blocking reagent) and 0.1 % NaN₃ to the cell pellet after tapping. Mix well and incubate for 5 minutes at room temperature. 5) Add 30 µL of the Anti-Human Podocalyxin/PCLP1 monoclonal antibody (53D11) (10-20 µg/mL) diluted with the washing buffer. Mix well and incubate for 30 minutes at room temperature. 6) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration. 7) Add 30 µL of secondary antibody (1:40 FITC conjugated anti-mouse IgG) diluted with the washing buffer. Mix well and incubate for 15 minutes at room temperature. 8) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration. 9) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer. (Positive control for flow cytometry transfectant)

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	PBS containing 50 % glycerol, pH 7.2. No preservative is contained.
Preservative:	Azide free
Storage:	-20 °C
Storage Comment:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.