

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Endoglycan/PODXL2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 211816
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Endoglycan/PODXL2 Gly33-Thr500 Accession # Q9NZ53
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

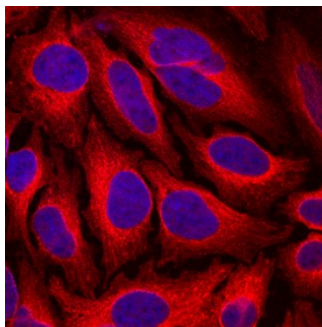
APPLICATIONS

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	2.5 µg/10 ⁶ cells	HUVEC human umbilical vein endothelial cells
Immunocytochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Immunocytochemistry



Endoglycan/PODXL2 in HeLa Human Cell Line. Endoglycan/PODXL2 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human Endoglycan/PODXL2 Monoclonal Antibody (Catalog # MAB1524) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Endoglycan, also named Podocalyxin-like 2 protein, is a type I transmembrane glycoprotein. It belongs to the CD34/Podocalyxin family of sialomucins that share structural similarity and sequence homology. It is expressed in hematopoietic precursors, endothelial cells, smooth muscle cells and leukocyte subpopulations. Endoglycan is a potential marker for hematopoietic progenitors. It also functions as an L-Selectin ligand and may be involved in the inhibition of stem cell differentiation and leukocyte-endothelial adhesion (1, 2).

References:

1. Sassetti, C. *et al.* (2000) *J. Biol. Chem.* **275**:9001.
2. Fieger, C.B. *et al.* (2003) *J. Biol. Chem.* **278**:27390.