

Endoglycan (H-204): sc-134999

BACKGROUND

Endoglycan, also known as podocalyxin-like 2, exists as a disulfide-dependent homodimer and belongs to the CD34 family of proteins. Endoglycan is a proteoglycan modified with chondroitin sulfate chains and (with appropriate posttranslational modifications) functions as an L-Selectin ligand, interacting via sulfation on two tyrosine residues. Endoglycan contains a membrane proximal globular domain, a single-pass transmembrane domain, a mucin-like domain and a highly acidic N-terminal with O-linked sLex structures. It is widely expressed, with distribution including endothelial cells, hematopoietic precursors and leukocyte subpopulations. Endoglycan is similar to PSGL-1 in that it also exhibits catch-slip transitional bonds. These bonds help to mediate the rolling and tethering of circulating leukocytes on vascular surfaces, typically during immune surveillance and inflammation. The ligand activity of Endoglycan is dependent on sialylation and fucosylation and may mediate adhesion events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PODXL2 (human) mapping to 3q21.3; Podxl2 (mouse) mapping to 6 D1.

SOURCE

Endoglycan (H-204) is a rabbit polyclonal antibody raised against amino acids 344-547 mapping within an internal region of Endoglycan of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Endoglycan (H-204) is recommended for detection of Endoglycan of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Endoglycan (H-204) is also recommended for detection of Endoglycan in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Endoglycan siRNA (h): sc-72322, Endoglycan siRNA (m): sc-72323, Endoglycan shRNA Plasmid (h): sc-72322-SH, Endoglycan shRNA Plasmid (m): sc-72323-SH, Endoglycan shRNA (h) Lentiviral Particles: sc-72322-V and Endoglycan shRNA (m) Lentiviral Particles: sc-72323-V.

Molecular Weight of reduced Endoglycan: 150 kDa.

Molecular Weight of nonreduced Endoglycan: 250 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Endoglycan (Y122): sc-73935**, our highly recommended monoclonal alternative to Endoglycan (H-204).