

Perlecan (N-20): sc-27448

BACKGROUND

Perlecan is part of a large family of heparan sulfate proteoglycans (HSPGs). As key components of cell surfaces and extracellular matrices, HSPGs modulate growth factor activities and thereby influence cell growth and differentiation. Additionally, HSPGs play a critical role in regulating tumor cell metastasis by mediating cell adhesion and the activities of growth and angiogenic factors. Perlecan consists of five distinct structural domains that interact with a number of matrix molecules, cytokines and growth factors to influence cartilage development and neuromuscular junction activity. Antithrombin, a key regulator of blood coagulation proteases, and TGF β 1 act as inhibitors and stimulators of Perlecan expression, respectively, interactions which may provide avenues for therapeutic intervention in certain types of cancer.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HSPG2 (human) mapping to 1p36.12; Hspg2 (mouse) mapping to 4 D3.

SOURCE

Perlecan (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Perlecan of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-27448 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Perlecan (N-20) is recommended for detection of precursor and mature Perlecan of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Perlecan (N-20) is also recommended for detection of precursor and mature Perlecan in additional species, including canine and bovine.

Suitable for use as control antibody for Perlecan siRNA (h): sc-44010, Perlecan siRNA (m): sc-44394, Perlecan shRNA Plasmid (h): sc-44010-SH, Perlecan shRNA Plasmid (m): sc-44394-SH, Perlecan shRNA (h) Lentiviral Particles: sc-44010-V and Perlecan shRNA (m) Lentiviral Particles: sc-44394-V.

Molecular Weight of Perlecan: 400 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 **Perlecan (E-6): sc-377219** or **Perlecan (A7L6): sc-33707**, our highly recommended monoclonal alternatives to Perlecan (N-20). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **Perlecan (E-6): sc-377219**.