



DATA SHEET

Rabbit Anti- HSPG Antibody

FOR RESEARCH USE ONLY.

PROUDUCT INFORMATION

Catalog Number: P4592Rb

Size: 0.2ml (200ug/ml)

Immunogen: Synthetic peptide-KLH

Ig type: rabbit IgG

Gentaur Molecular Products
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1910 Kampenhout, Belgium

BACKGROUND

Heparan sulfate proteoglycan(HSPG) is a major component of basement membranes, where the molecule may be involved in the stabilization of other molecules as well as being involved with glomerular permeability to macromolecules and cell adhesion. This form of HSPG, known as HSPG2 or perlecan, is encoded by a gene that maps to chromosome 1. The gene for the form of HSPG associated with the cell surface of fibroblasts has been mapped to human chromosome 8. This protein is an integral component of basement membranes. It is responsible for the fixed negative electrostatic charge and is involved in the charge-selective ultrafiltration properties. It serves as an attachment substrate for cells.

SPEFICITY

Anti- HSPG antibody is a rabbit polyclonal antibody raised against HSPG. This antibody has been selected for its ability to recognize HSPG in western blot , immunohistochemistry staining and ELISA.

APPLICATION Western blot: 1:200-1000
 Immunocytochemistry in formalin fixed cells: **1:100-500**
 Immunohistochemistry in formalin fixed frozen section: **1:50-100**
 Immunohistochemistry in paraffin section: **1:50-100**
 Optimal working dilutions must be determined by end user.

CONTENTS 0.01M PBS, 30% glycerol.

STORAGE Store at 4° C for frequent use. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.

REFERENCE

1. West L, Govindraj P, Koob TJ, Hassell JR (June 2006). "Changes in perlecan during chondrocyte differentiation in the fetal bovine rib growth plate". *J. Orthop. Res.* **24** (6): 1317–26.
2. Li YZ, Liu XH, Cai LR (April 2007). "Down-regulation of perlecan expression contributes to the inhibition of rat cardiac microvascular endothelial cell proliferation induced by hypoxia". *Sheng Li Xue Bao* **59** (2): 221–6.

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