
**Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide
Rat Monoclonal Antibody [Clone SPM255]
Catalog # AH11474**

Specification

**Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide -
Product Information**

Application	IHC-P
Primary Accession	P98160
Other Accession	3339 , 562227
Reactivity	Human, Mouse, Monkey, Pig, Fish, Bovine
Host	Rat
Clonality	Monoclonal
Isotype	Rat / IgG2a, kappa
Calculated MW	>400kDa KDa

**Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide -
Additional Information**

Gene ID 3339

Other Names

Basement membrane-specific heparan sulfate proteoglycan core protein, HSPG, Perlecan, PLC, Endorepellin, LG3 peptide, HSPG2

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide -
Protein Information**

Name HSPG2

Function

Integral component of basement membranes. Component of the glomerular basement membrane (GBM), responsible for the fixed negative electrostatic membrane charge, and which provides a barrier which is both size- and charge-selective. It serves as an attachment substrate for cells. Plays essential roles in vascularization. Critical for normal heart development and for regulating the vascular response to injury. Also required for avascular cartilage development. [LG3 peptide]: Has anti-angiogenic properties that require binding of calcium ions for full activity.

Cellular Location

Secreted, extracellular space, extracellular matrix, basement membrane. Secreted

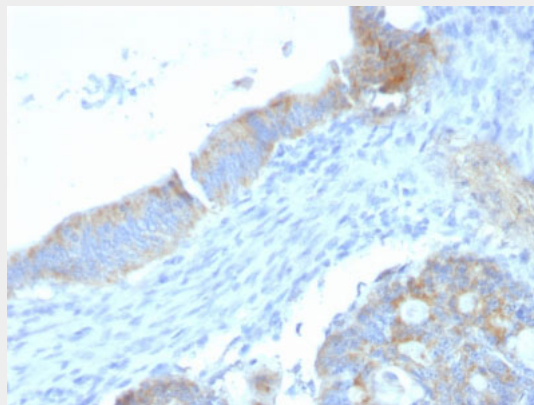
Tissue Location

Detected in cerebrospinal fluid, fibroblasts and urine (at protein level).

Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide - Images

Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with Heparan Sulfate Monoclonal Antibody (SPM255).

Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide - Background

This MAb specifically precipitates heterogeneous material of high MW, identified as perlecan, a major heparan-sulfate proteoglycan (HSPG) within all basement membranes and cell surfaces. It does not cross-react with laminin, fibronectin, or dermatan sulfate proteoglycan. Because of perlecan's strategic location and ability to store and protect growth factors, it has been strongly implicated in the control of tumor cell growth and metastatic behavior. Perlecan possesses angiogenic and growth-promoting attributes primarily by acting as a co-receptor for basic fibroblast growth factor (FGF-2). Suppression of perlecan causes substantial inhibition of neoplastic growth and neovascularization. Thus, perlecan is a potent inducer of neoplasm growth and angiogenesis in vivo and therapeutic interventions targeting this key modulator of tumor progression may improve neoplastic treatment.

Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody - With BSA and Azide - References

Folkvord et. al., J Histochem Cytochem, 1989; 37:105-113. | Couchman et. al., Matrix, 1989; 9:311-321. | Horiguchi et. al., J Histochem Cytochem, 1989; 37:961-970. | Ljubimov et. al., Int J

Cancer, 1992; 50:562-566. | Guelstein et. al., Int J Cancer, 1993; 53:269-277. | Ljubimov et. al., Lab Invest, 1995; 72:461-473. |