

# Anti-Heparan Sulfate Proteoglycan 2/Perlecan antibody [A76] ab26265

## 8 References

### 概述

产品名称	Anti-Heparan Sulfate Proteoglycan 2/Perlecan抗体[A76]
描述	小鼠单克隆抗体[A76] to Heparan Sulfate Proteoglycan 2/Perlecan
宿主	Mouse
特异性	This antibody is highly specific for Heparan Sulfate Proteoglycan 2/Perlecan. There is no evidence for cross-reactivity with other connective tissue proteins (vitronectin, fibronectin, elastin, collagen, laminin) but it does cross-react with human thrombospondin.
经测试应用	适用于: IP, WB, ELISA, IHC-Fr, IHC-P
种属反应性	与反应: Sheep, Cow, Human
免疫原	Tissue, cells or virus corresponding to Cow Heparan Sulfate Proteoglycan 2/Perlecan.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	<p>pH: 7.40</p> <p>Preservative: 0.097% Sodium azide</p> <p>Constituents: 0.0268% PBS, 2.9% Sodium chloride</p>
纯度	Protein G purified
纯化说明	Protein-A/G purified.
克隆	单克隆
克隆编号	A76
骨髓瘤	Sp2/0

同种型

IgG1

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab26265于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. PubMed: 18568676
AP		Use at an assay dependent concentration.

靶标

功能

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. Endorepellin in an anti-angiogenic and anti-tumor peptide that inhibits endothelial cell migration, collagen-induced endothelial tube morphogenesis and blood vessel growth in the chorioallantoic membrane. Blocks endothelial cell adhesion to fibronectin and type I collagen. Anti-tumor agent in neovascularization. Interaction with its ligand, integrin alpha2/beta1, is required for the anti-angiogenic properties. Evokes a reduction in phosphorylation of receptor tyrosine kinases via alpha2/beta1 integrin-mediated activation of the tyrosine phosphatase, PTPN6. The LG3 peptide has anti-angiogenic properties that require binding of calcium ions for full activity.

组织特异性

Found in the basement membranes.

疾病相关

Defects in HSPG2 are the cause of Schwartz-Jampel syndrome (SJS1) [MIM:255800]; a rare autosomal recessive disorder characterized by permanent myotonia (prolonged failure of muscle relaxation) and skeletal dysplasia, resulting in reduced stature, kyphoscoliosis, bowing of the diaphyses and irregular epiphyses. Defects in HSPG2 are the cause of dyssegmental dysplasia Silverman-Handmaker type (DDSH) [MIM:224410]. The dyssegmental dysplasias are rare, autosomal recessive skeletal dysplasias with anisospondyly and micromelia. There are two recognized types: the severe, lethal DDSH and the milder Rolland-Desbuquois form. Individuals with DDSH also have a flat face, micrognathia, cleft palate and reduced joint mobility, and frequently have an encephalocoele. The endochondral growth plate is short, the calcospherites (which are spherical calcium-phosphorus crystals produced by hypertrophic chondrocytes) are unfused, and there is mucoid degeneration of the

	resting cartilage.
<b>序列相似性</b>	<p>Contains 4 EGF-like domains.</p> <p>Contains 22 Ig-like C2-type (immunoglobulin-like) domains.</p> <p>Contains 11 laminin EGF-like domains.</p> <p>Contains 3 laminin G-like domains.</p> <p>Contains 3 laminin IV type A domains.</p> <p>Contains 4 LDL-receptor class A domains.</p> <p>Contains 1 SEA domain.</p>
<b>翻译后修饰</b>	<p>Proteolytic processing produces the C-terminal angiogenic peptide, endorepellin. This peptide can be further processed to produce the LG3 peptide.</p> <p>N- and O-glycosylated; contains three heparan sulfate chains. The LG3 peptide contains at least three and up to five potential O-glycosylation sites but no N-glycosylation.</p>
<b>细胞定位</b>	Secreted > extracellular space > extracellular matrix > basement membrane.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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