

# Anti-Heparan Sulfate Proteoglycan 2/Perlecan antibody [A74] ab23418

★★★★★ [6 Abreviews](#) [15 References](#)

### 製品の概要

製品名	Anti-Heparan Sulfate Proteoglycan 2/Perlecan antibody [A74]
製品の詳細	Mouse monoclonal [A74] to Heparan Sulfate Proteoglycan 2/Perlecan
由来種	Mouse
特異性	ab23418 is highly specific for perlecan. There is no evidence for cross-reactivity with other connective tissue proteins (vitronectin, fibronectin, elastin, collagen, laminin).
アプリケーション	<b>適用あり:</b> ICC/IF, WB, IP, ELISA, IHC-Fr, IHC-P
種交差性	<b>交差種:</b> Cow, Human
免疫原	Tissue, cells or virus corresponding to Cow Heparan Sulfate Proteoglycan 2/Perlecan.
エピトープ	Epitope is located in domain V of Perlecan.
特記事項	<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>

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.40</p> <p>Preservative: 0.097% Sodium azide</p> <p>Constituents: 0.0268% PBS, 2.9% Sodium chloride</p>
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	A74
ミエローマ	Sp2/0

## アプリケーション

**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab23418の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
WB	★★★★★ (1)	Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
AP		Use at an assay dependent concentration.
IHC-P	★★★★★ (3)	Use at an assay dependent concentration. PubMed: 22278369

## ターゲット情報

## 機能

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.

## 組織特異性

Found in the basement membranes.

## 関連疾患

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 anisodisplasia 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.

#### 配列類似性

Contains 4 EGF-like domains.  
Contains 22 Ig-like C2-type (immunoglobulin-like) domains.  
Contains 11 laminin EGF-like domains.  
Contains 3 laminin G-like domains.  
Contains 3 laminin V type A domains.  
Contains 4 LDL-receptor class A domains.  
Contains 1 SEA domain.

#### 翻訳後修飾

Proteolytic processing produces the C-terminal angiogenic peptide, endorepellin. This peptide can be further processed to produce the LG3 peptide.  
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.

#### 細胞内局在

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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