bs-5072R **[Primary Antibody]**

HSPG2/Heparan Sulfate Proteoglycan 2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3339 **SWISS:** P98160

Target: HSPG2/Heparan Sulfate Proteoglycan 2

Immunogen: KLH conjugated synthetic peptide derived from human Heparan Sulfate Proteoglycan 2: 3601-3700/4391.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes the perlecan protein, which consists of a core protein to which three long chains of glycosaminoglycans(heparan sulfate or chondroitin sulfate) are attached. The perlecan protein is a large multidomain proteoglycan that binds to and cross-links many extracellular matrix components and cell-surface molecules. It has been shown that this protein interacts with laminin, prolargin, collagen type IV, FGFBP1, FBLN2, FGF7 and Transthyretin, etc. and plays essential roles in multiple biological activities. Perlecan is a key component of the vascular extracellular matrix, where it helps to maintain the endothelial barrier function. It is a potent inhibitor of smooth muscle cell proliferation and is thus thought to help maintain vascular homeostasis. It can also promote growth factor (e.g., FGF2) activity and thus stimulate endothelial growth and re-generation. It is a major component of basement membranes, where it is involved in the stabilization of other molecules as well as being involved with glomerular permeability to macromolecules and cell adhesion. Mutations in this gene cause Schwartz-Jampel syndrome type 1, Silverman-Handmaker type of dyssegmental dysplasia, and Tardive dyskinesia.[provided by RefSeq, Mar 2010].

Applications: **ELISA** (1:5000-10000)

Reactivity: Human (predicted: Mouse, Rat, Pig, Cow, Horse)

Predicted MW.: 469 kDa

Subcellular Location: Secreted ,Extracellular matrix ,Cell membrane

SELECTED CITATIONS

- **[IF=3.7]** Peng Liu. et al.Lactoferrin exhibits PEDV antiviral activity by interfering with spike-heparan sulfate proteoglycans binding and activating mucosal immune response.VETERINARY RESEARCH.2025 Jan 31;56(1):25. IF ;Rabbit. 39891300
- **[IF=2.6]** Yanlin Zhang. et al.By activating endothelium histone H4 mediates oleic acid-induced acute respiratory distress syndrome.BMC PULMONARY MEDICINE.2025 Jan 6;25(1):3. ;. 39757148
- **[IF=1.81]** Wang Hua. et al. Distribution of extracellular matrix related proteins in normal and cryptorchid ziwuling black goat testes. ANIM REPROD. 2022 Jun;19: IHC ;Goat. 35712443