

Recombinant Human HSPG2 Over-expression Lysate, C-Myc/DDK tagged

Cat. No. HSPG2-05HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Transient overexpression lysate of heparan sulfate proteoglycan 2 (HSPG2) with a C-Myc/DDK tag was expressed in HEK293T. Components: 1 vial of 100 µg gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 µg whole HEK293T cell lysate in RIPA buffer 1 vial of 250 µL 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromophenol blue, 100mM DTT)
Species	Human
Source	HEK293
Description	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 it 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

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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. Alternative splicing of this gene results in multiple transcript variants.

Molecular Mass	468.91 kDa
Stability	Lysate samples are stable for 12 months from the date of receipt when stored at -80 centigrade.
Storage	Upon receiving, store the sample at -80 centigrade. Also after dilution, the protein sample should be aliquoted and stored at -80 centigrade for long term storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Lysate samples can be diluted with 2xSDS Sample Buffer provided.
Shipping	The lysate is shipped with dry ice.

GENE INFORMATION

Gene Name	HSPG2 heparan sulfate proteoglycan 2 [Homo sapiens (human)]
Official Symbol	HSPG2
Synonyms	HSPG2; heparan sulfate proteoglycan 2; PLC; SJA; SJS; HSPG; SJS1; PRCAN; basement membrane-specific heparan sulfate proteoglycan core protein; endorepellin (domain V region); perlecan proteoglycan
Gene ID	3339

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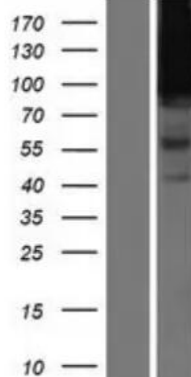
mRNA Refseq NM_005529

Protein Refseq NP_005520

MIM 142461

UniProt ID P98160

WB



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