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Product datasheet for AM02103PU-S

Heparan-Sulfate-Proteoglycan Mouse Monoclonal Antibody [Clone ID: 2H7/G11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2H7/G11
Applications:	ELISA, IHC, WB
Recommended Dilution:	**ELISA** (less than 1 µg/ml). **Western blot** (1 µg/ml). **Immunohistochemistry** (1 µg/ml)
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human small basement membrane Heparan Sulfate Proteoglycan (HS-PG)
Specificity:	This Monoclonal antibody is specific for a core protein epitope of a Human small basement membrane Heparan Sulfate proteo-glycan (HS-PG). AM02103PU recognizes an epitope different from that recognized by clones 1F10/B8 (Cat.-No AM02102PU) and 2E2/B5 (Cat.-No AM20231PU).
Formulation:	50 mM TRIS pH 7.4 State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore in aqua bidest to 1 mg/ml.
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C and reconstituted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.

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Background: The principal molecular structure of basement membranes has been elucidated during the past two decades and it was shown that for example in the glomerular basement membrane (GBM) HS-PG are responsible for the selective filtration process. Removal of HS-PG will lead to proteinuria. Whereas previously perlecan was the only known basement membrane HS-PG, there is now evidence that (at least two) other basement membrane HS-PG do exist: Agrin, originally discovered as an important component of the neuromuscular junction and a novel small HS-PG, that was isolated from human aorta and kidney. This HS-PG, with a molecular weight of 80-200 kDa (aorta) and 30-160 kDa (kidney) and a core protein size of 24 kDa or 22 kDa, respectively, was localized by immunohistoche-mistry to the basement membrane. Amino acid sequence ana-lysis of tryptic peptides indicate, that this small HS-PG is clearly distinct from perlecan and agrin.

Synonyms: small Heparan sulfate proteoglycan core protein