

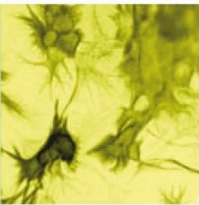
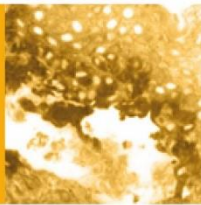
## Data Sheet

# HUMAN HEPARAN SULFATE PROTEOGLYCAN

## ANTIBODY, MONOCLONAL

<b>Catalog no.:</b>	AH1002.1 / AH1002.2
<b>Immunogen:</b>	Purified human small basement membrane heparan sulfate proteoglycan (HS-PG)
<b>Host:</b>	Mouse Balb/c
<b>Clone no.:</b>	2E2/B5
<b>Isotype:</b>	IgG <sub>1</sub> kappa
<b>Matrix:</b>	Cell culture supernatant, Protein G purified, 50 mM TRIS pH7.4
<b>Specificity:</b>	Monoclonal Ab 2E2/B5 is specific for a core protein epitope of a human small basement membrane heparan sulfate proteoglycan (HS-PG). mAb 2E2/B5 recognizes an epitope different from that recognized by mAb 1F10/B8 and mAb 2H7/G11. Whereas previously perlecan was the only known basement membrane HS-PG, there is now evidence that at least two other basement membrane HS-PG exist: Agrin, originally discovered as an important component of the neuromuscular junction, and a novel small HS-PG which 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 immunohistochemistry to the basement membrane. Amino acid sequence analysis of tryptic peptides indicate, that this small HS-PG is clearly distinct from perlecan and agrin.
<b>Contents:</b>	10 µg / 100 µg (lyophilized) Resuspend in 10 µl / 100 µl aqua bidest.
<b>Known applications:</b>	ELISA (less than 1 µg/ml), Western Blot (1 µg/ml), immunohistochemistry (1 µg/ml)  This antibody has not been tested for use in all applications. This does not necessarily exclude its use for non-tested procedures. The stated dilutions are recommendations only. We suggest that the applicant titrates the antibody in his/her system using appropriate negative/positive controls.
<b>Store at:</b>	2-8 °C (lyophilized); - 20 °C (dissolved) Repeated thawing and freezing must be avoided





**References:**

1. Heintz B, Stöcker G, Rentz U, Melzer H, Mrowka C, Stickeler E, Sieberth HG, Greiling H, Haubeck HD (1995). Decreased glomerular basement membrane heparan sulfate proteoglycan in essential hypertension. *Hypertension* 25: 399-407.
2. Stefanidis I, Heintz B, Stöcker G, Mrowka C, Sieberth HG, Haubeck HD (1996). Association between heparan sulfate proteoglycan excretion and proteinuria after renal transplantation. *J Am Soc Nephrol* 7: 1-7.
3. Stöcker G, Stickeler E, Switalla S, Fischer DC, Greiling H, Haubeck HD (1997). Development of an enzyme immuno assay specific for a core protein epitope of a novel small basement membrane associated heparan sulphate proteoglycan from human kidney. *Eur J Clin Chem Clin Biochem* 35: 95-99.

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**For research use only**

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