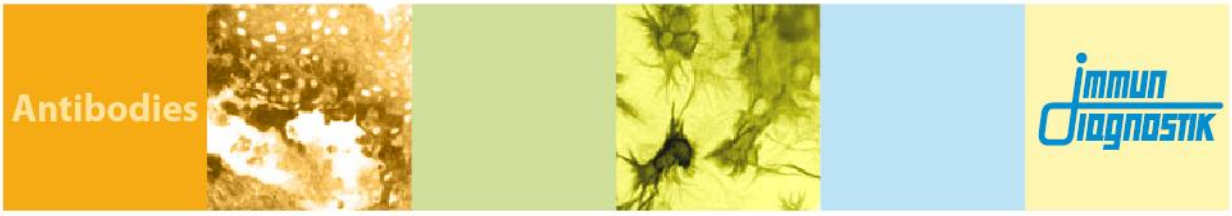


# Data Sheet

# HEPARAN SULFATE PROTEOGLYCAN

## **ANTIBODY,** MONOCLONAL

| | |
|---|---|
| **Catalog no.:** | AH1003.1 / AH1003.2 |
| **Immunogen:** | Purified human small basement membrane heparan sulfate proteoglycan (HS-PG) |
| **Host:** | Mouse Balb/c |
| **Clone no.:** | 2H7/G11 |
| **Isotype:** | $IgG_{1kappa}$ |
| **Matrix:** | Cell culture supernatant, Protein G purified, 50 mM TRIS pH 7.4 |
| **Specificity:** | Monoclonal Ab 2H7/G11 is specific for a core protein epitope of a human small basement membrane heparan sulfate proteoglycan (HS-PG). mAb 2H7/G11 recognizes an epitope different from that recognized by mAb 1F10/B8 and mAb 2E2/B5. 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. |
| **Contents:** | 10 µg / 100 µg (lyophilized)<br>Resuspend in 10 µl / 100 µl aqua bidest. |
| **Known applications:** | ELISA (less than 1µg/ml), Western Blot (1µg/ml), immunohistochemistry (1µg/ml)<br>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. |
| **Store at:** | 2-8 °C (lyophilized); - 20 °C (dissolved)<br>Repeated thawing and freezing must be avoided |

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**References:**

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3. 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.

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