DATA SHEET

ANTI HEPARAN-SULFATE-PROTEOGLYCAN ANTIBODY, MONOCLONAL

Catalog no.: AH 1001.1 / AH 1001.2

Immunogen: Purified human small basement membrane heparan sulfate proteoglycan (HS-PG)

Host: Mouse BALB/c

Clone no.: 1F10/B8

Isotype: IgG1kappa

Matrix: Cell culture supernatant, Protein G purified, 50 mM TRIS pH 7.4

Specificity: Monoclonal Ab 1F10 / B8 is specific for a core protein epitope of a human small basement membrane heparan sulfate proteo-glycan (HS-PG). MAb 1F10 / B8 recognizes an epitope different from that recognized by mAb 2H7 / G11 and mAb 2E2 / B5. 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 immunohisto-chemistry 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) resuspend in 10 µl / 100 µl aqua bidest

Known applications: ELISA (less than 1µg/ml); Westernblot (1µg/ml), Immunohistochemistry (1µg/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.

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Store at: 2-8 °C (lyophilized); -20 °C (dissolved)
Repeated thawing and freezing must be avoided

References:


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