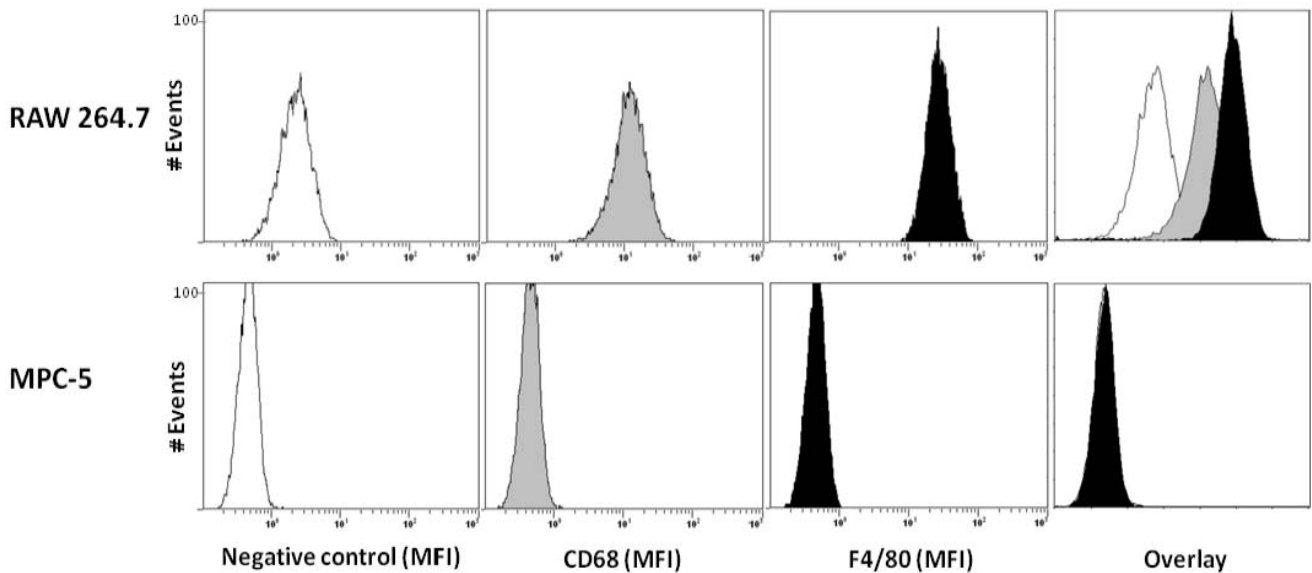


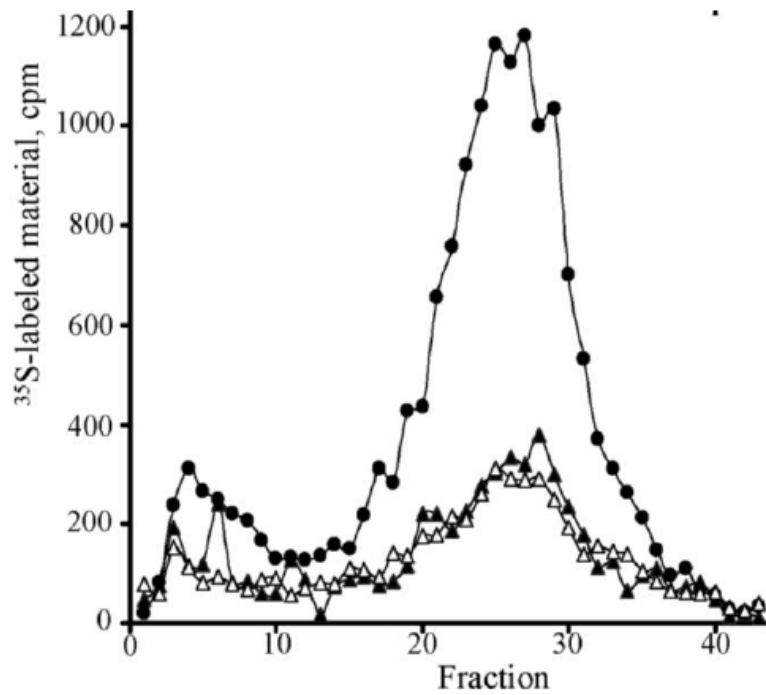
SUPPLEMENTARY DATA

Supplementary figure 1. Mouse podocytes in culture do not express the macrophage markers F4/80 and CD68. The expression of F4/80 (black filled histograms) and CD68 (grey filled histograms) by mouse podocytes (MPC-5; lower panels) and macrophages (RAW 264.7; upper panels) was measured by flow cytometry. Rat IgG was used as negative control (open line histograms). The mean fluorescence intensity (MFI) is shown. Briefly, MPC-5 podocytes (cultured as previously described in Mundel P et al., *Exp Cell Res.* 1997; 236:248-58). RAW 264.7 macrophages (cultured as suggested by ATCC), were rinsed with PBS, and detached by incubating with 10 mM EDTA. Detached cells were pelleted and washed with PBS. Subsequently, cells were incubated with the primary rat anti-mouse F4/80 and CD68 antibodies (Serotec), or control rat IgG (Sanbio) in PBA (PBS containing 0.5% bovine serum albumin) for 30 minutes and subsequently washed in PBA. Cells were incubated with the secondary anti-rat IgG Alexa-488 labeled antibody (Invitrogen) in PBA for 30 minutes. Subsequently, cells were pelleted, washed and resuspended in PBA. Fluorescence was measured using a Flow Cytometer FC 500 (Beckman Coulter).



SUPPLEMENTARY DATA

Supplementary figure 2. Processing and activation of recombinant heparanase by cathepsin L. Purified recombinant 65-kDa proheparanase was incubated (1 h, 37 °C) with a purified preparation of cathepsin L (Sigma, C-6854) at pH 5.5 (100 mm acetate buffer supplemented with 4 mm EDTA and 8 mm dithiothreitol) in the absence (•) or presence (▲) of 7.2 μm cathepsin L inhibitor (Z-FF-FMK, Calbiochem, 421419). Recombinant 65-kDa latent heparanase was used as a control (△). The reaction mixture was then subjected to heparanase enzymatic activity assay. The FF-FMK inhibitor alone had no effect on heparanase enzymatic activity. Reprinted from Ref. 47 with the permission by American Society for Biochemistry and Molecular Biology.



SUPPLEMENTARY DATA

Supplementary Figure 3. Kidneys were harvested from db/db type 2 diabetic mice and their non-diabetic littermates (db/m) on experimental week 18. **A.** Total heparanase expression evaluated by qRT-PCR. **B.** Immunoblot analysis with anti-heparanase monoclonal antibody 01385-126, that recognizes both the 50-kDa subunit and the 65-kDa proheparanase.

