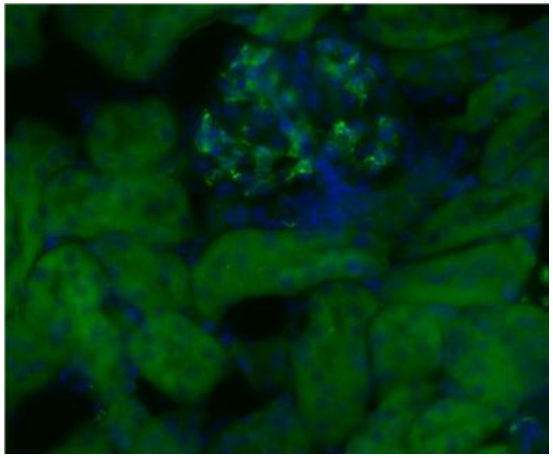
Figure 1

(**A**) Expression of MR in the kidney of a pre-immunised WT mouse prior to induction of nephrotoxic nephritis and (**B**) 72 hours following injection of nephrotic serum demonstrating the predominant glomerular (mesangial pattern) staining prior to disease induction and a periglomerular distribution 72 hours later(both x400)

A



B

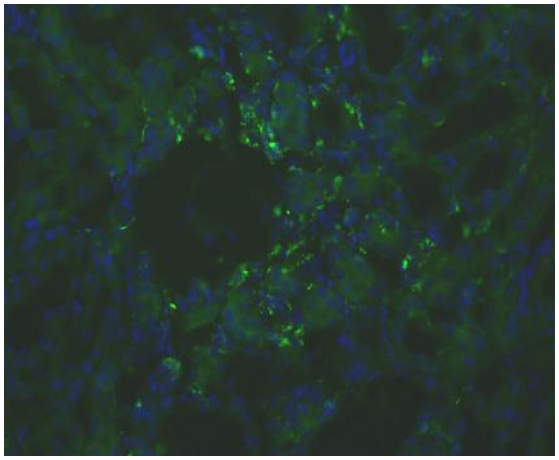


Figure 2

Circulating mouse anti-sheep IgG immunoglobulin isotypes from WT and *Mr*$^{-/-}$ mice with nephrotoxic nephritis; **A**) IgG1, **B**) IgG2a, **C**) IgG2b, and **D**) IgG3 demonstrating no significant differences in humoral responses between WT and *Mr*$^{-/-}$ mice.

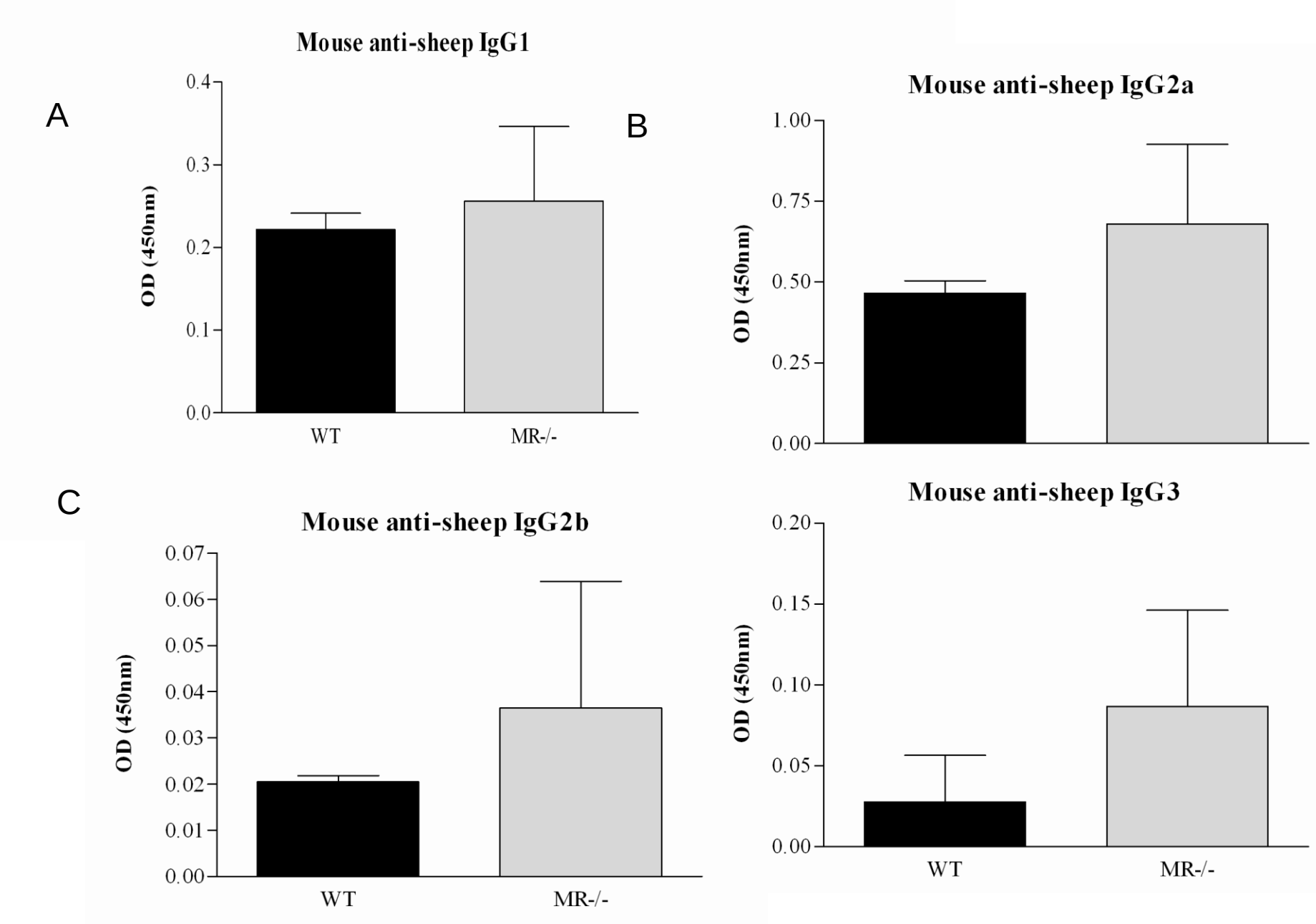


Figure 3

(**A**) Delayed type hypersensitivity responses in WT and *Mr*$^{-/-}$ mice with nephrotoxic nephritis assessed by change in skin thickness following challenge with PBS or sheep IgG. No differences were found between the responses in WT or *Mr*$^{-/-}$ mice.

(**B**) Levels of IL-17A in the supernatants of CD4+ T cells from pre-immunised WT or *Mr-/-* mice stimulated with CD3/CD28 microbeads demonstrating no significant difference in cytokine production.

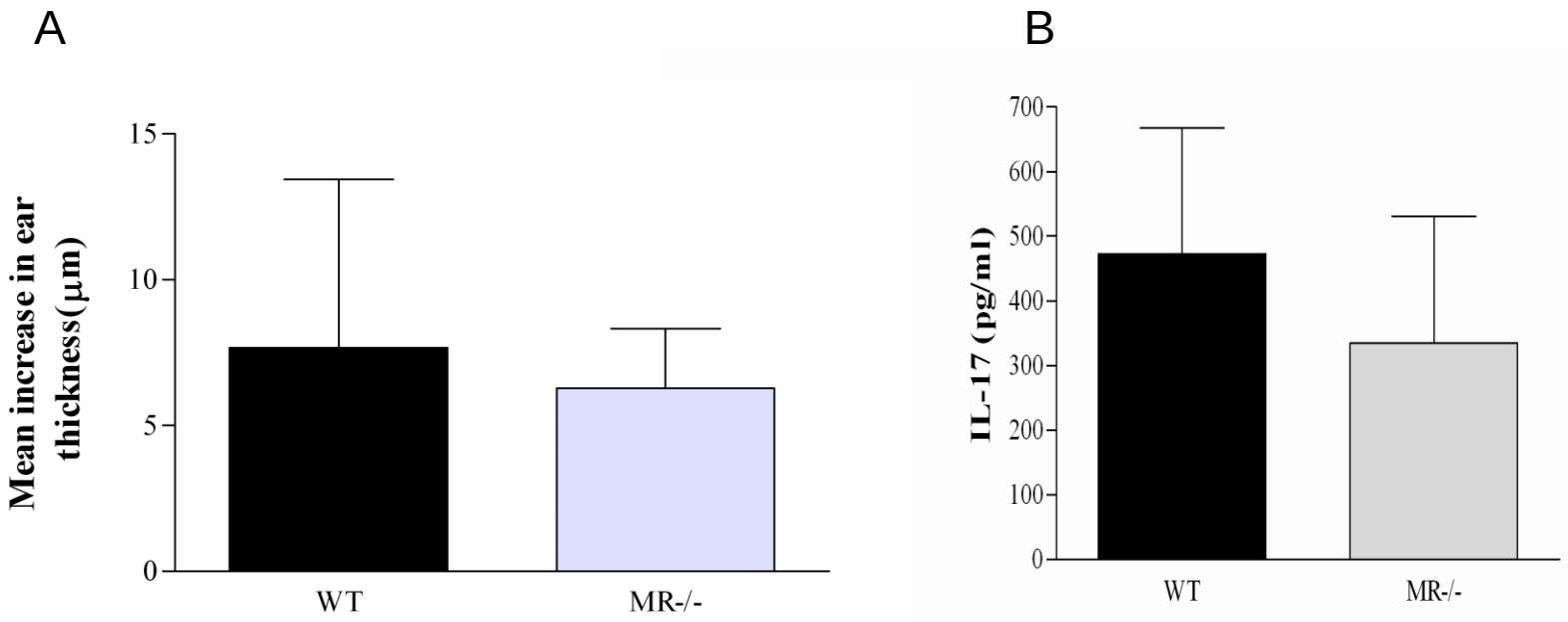
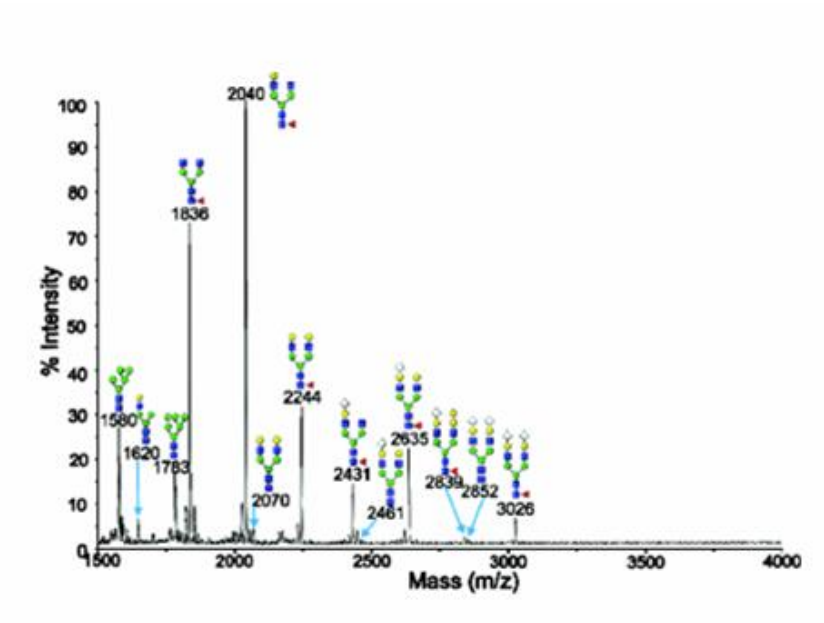


Figure 4

MALDI-TOF profiles of permethylated N-glycans released from IgG sample by PNGase F digestion. (**A**) is IgG from WT mice with NTN and (**B**) is IgG from *Mr*$^{-/-}$with NTN. Sugar symbols: yellow circle, Gal; green circle, Man; blue square, GlcNAc; red triangle, Fuc; blue diamond, NeuGc

A



B

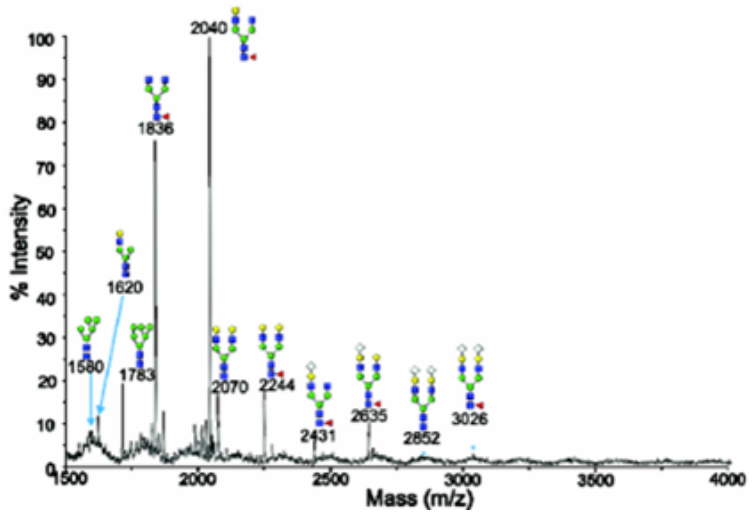
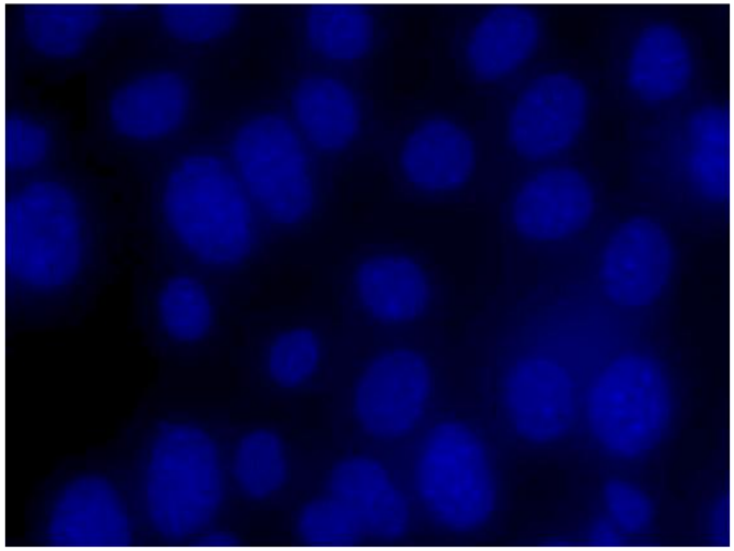


Figure 5

Apoptosis of mesangial cells from **(A)** WT (x400) and **(B)** *Mr*$^{-/-}$ (x200) mice assessed by Hoechst dye exclusion, confirming the increased apoptotic rate in mesangial cells, demonstrated by the condensed nuclear material and apoptotic bodies highlighted by yellow arrows.

A



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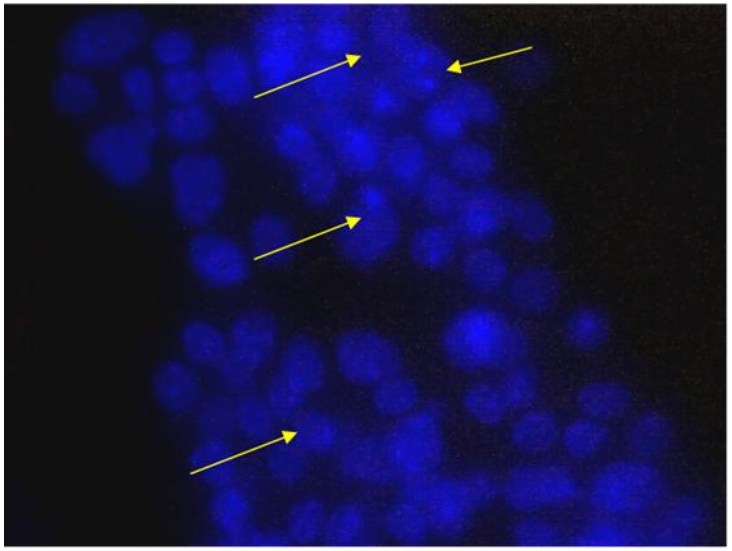

Figure 6
TNF-α production from WT and *Mr*$^{-/-}$ macrophages stimulated with differing concentrations of LPS for 2 hours, measured by ELISA on cell supernatants.