Cluster of Differentiation-44 as a Novel Biomarker of Lupus Nephritis and Its Role in Kidney Inflammation and Fibrosis

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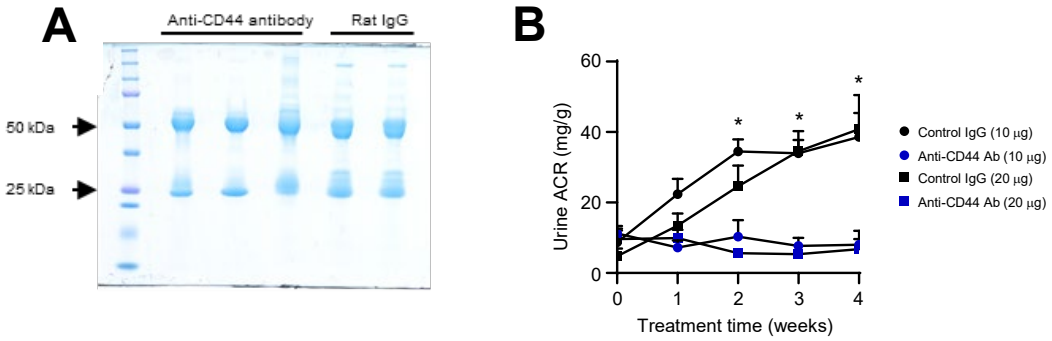
Supplementary Material



Supplementary Figure 1. Purification of anti-CD44 antibody and its effect on proteinuria

(A) Anti-CD44 monoclonal antibody was purified from the supernatant of rat B cell hybridomas (clone IM7.8.1) by protein G-Sepharose chromatography using HiTrap® Protein G High Performance columns followed by Pierce™ High Capacity Endotoxin Removal Spin Columns. The purity of the antibody was assessed by SDS-PAGE under reducing conditions using 30 μg total protein per lane. Purified IM7.8.1 antibody showed 2 bands at 25 kDa and 50 kDa representing the light and heavy chains of IgG respectively. BD Pharmingen™ purified NA/LE rat IgG2b,κ isotype control was also electrophoresed for comparison. (B) Preliminary studies showing the effect of weekly tail vein administration of Control IgG (10 or 20 μg, n = 4) or anti-CD44 antibody (10 or 20 μg, n = 5) on weekly urine ACR for 4 weeks (*P<0.05, compared to baseline (T = 0)).