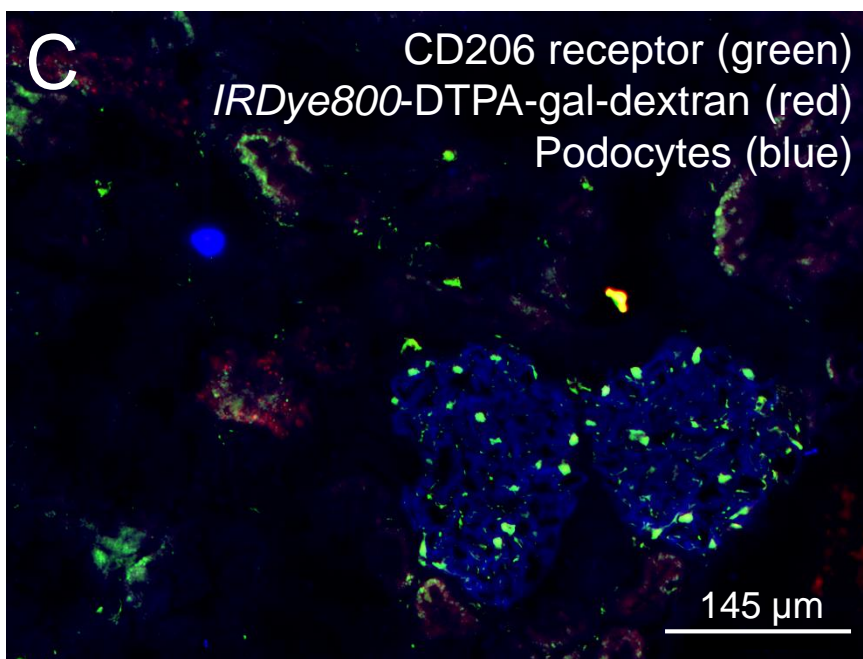
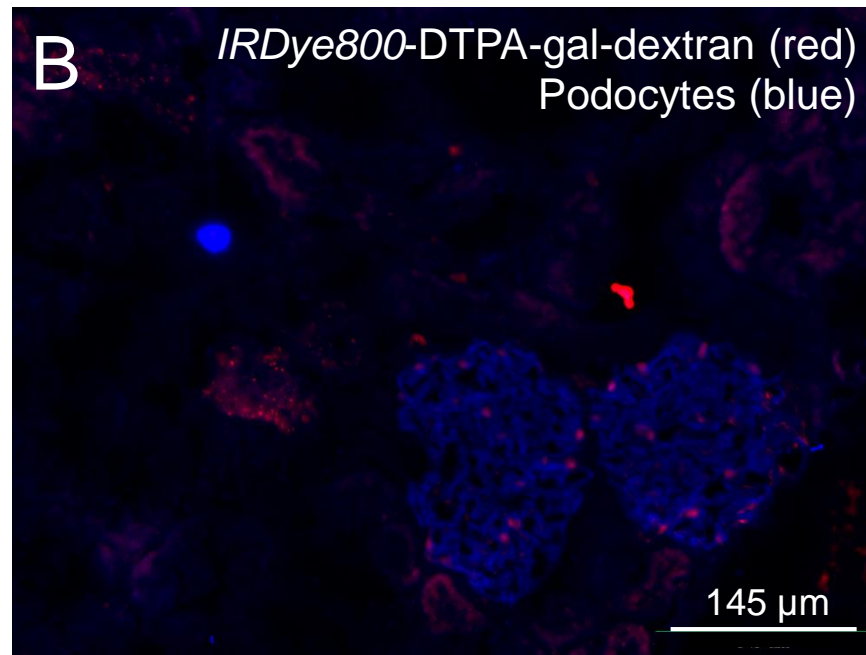
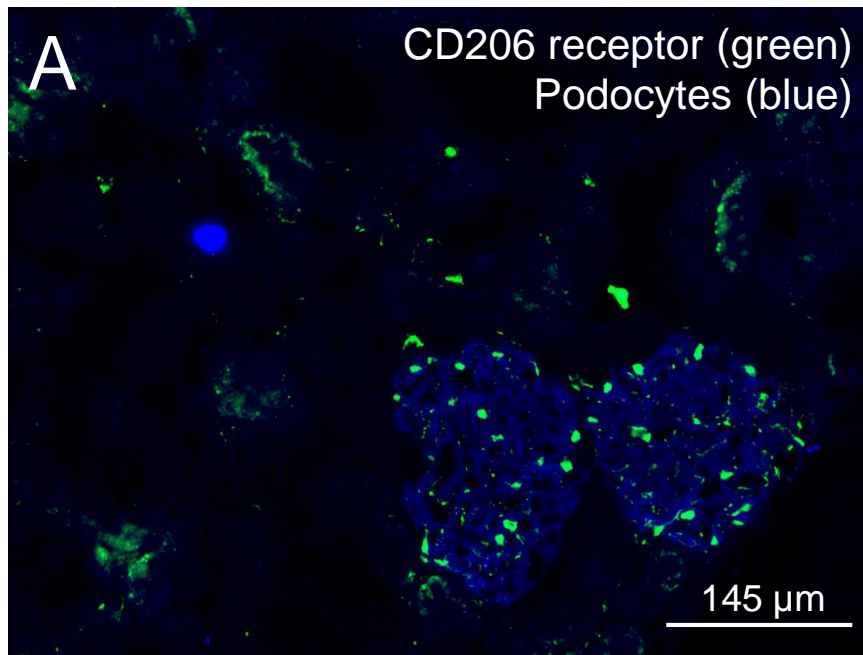
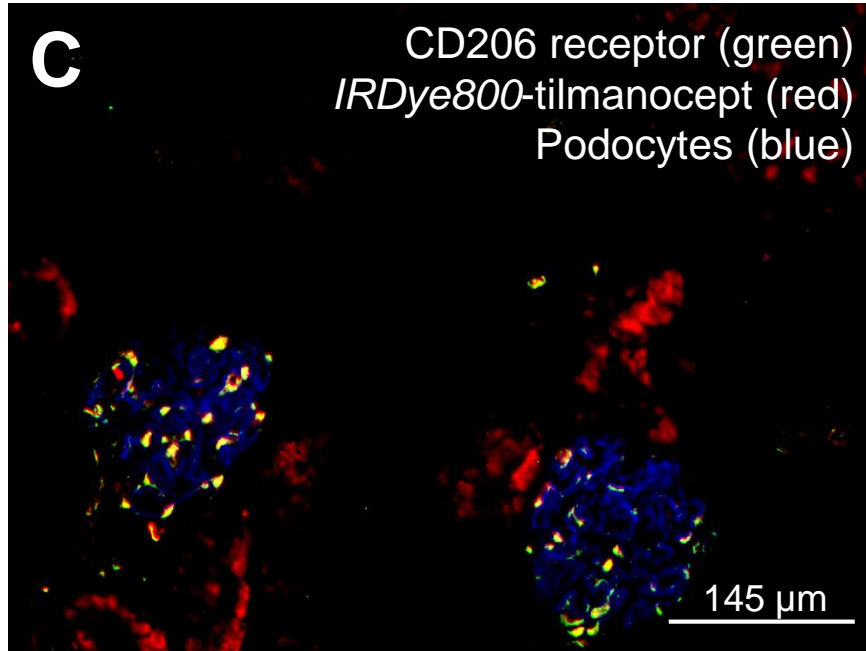
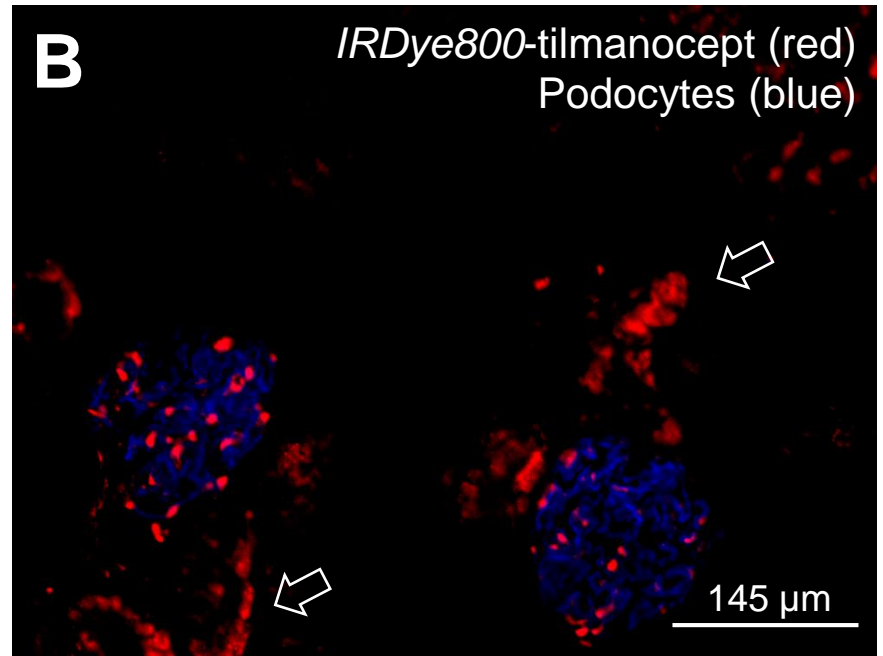
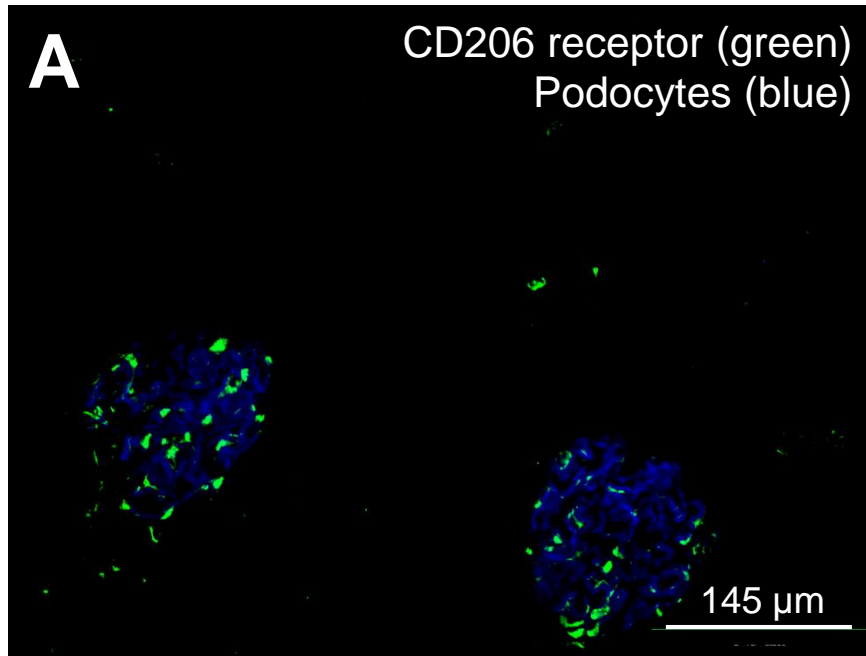


Supplemental Figure 1: Liver time-activity curves demonstrated receptor-mediated accumulation of Ga-68-labeled *IRDye800*-tilmanocept, which influenced tilmanocept uptake by the renal cortex. low (0.02 nmol/g) scaled molar dose of ⁶⁸Ga-labeled-*IRDye800*-tilmanocept (FL-tilmanocept) or ⁶⁸Ga-labeled-DTPA-*IRDye800*-galactosyl-dextran (FL-*gal*-dextran), or a high (0.10 nmol/g) scaled dose of FL-tilmanocept, or a coinjection of FL-tilmanocept and 5.0 nmol/g tilmanocept.



Supplemental Figure 2A. Histologic demonstration of tilmanocept specificity for the CD206 receptor. Three histomicrographs from the same section (frozen section, 5 μm) of a healthy rat kidney excised 40 minutes after a 0.02-nmol/g injection of *IRDye800*CW-DTPA-galactosyl-dextran radiolabeled with gallium-68. **(A)** A dual-channel composite (*AlexaFluor488*, *AlexaFluor647*) at 20x magnification representing the distribution of podocytes (blue) and CD206 (green). **(B)** A dual-channel composite (*AlexaFluor488*, *IRDye800*CW, 20x) demonstrating the distribution of podocytes (blue) and the very low presence of *IRDye800*-DTPA-galactosyl-dextran (red). **(C)** A three-channel composite (*AlexaFluor488*, *AlexaFluor647*, *IRDye800*CW, 20x), which demonstrates the lack co-localization (yellow) of *IRDye800*-DTPA-galactosyl-dextran (red) and CD206 (green) within the glomerular compartment (blue).



Supplemental Figure 3A. Histologic demonstration of tilmanocept binding to the CD206 receptor within the mesangium. Three histomicrographs from the same section (frozen section, 5 μm) of a healthy rat kidney excised 40 minutes after a 0.1 nmol/g injection of IRDye800-tilmanocept radiolabeled with gallium-68. **(A)** A dual-channel composite (*AlexaFluor488*, *AlexaFluor647*) at 20x magnification representing the distribution of podocytes (blue) and CD206 (green). **(B)** A dual-channel composite (*AlexaFluor488*, *IRDye800CW*, 20x) representing the distribution of podocytes (blue) and tilmanocept (red). The presence of IRDye800 (red) outside (arrows) of the podocyte (blue) fields is consistent with filtered IRDye800-tilmanocept within the renal tubules; the urinary bladder of this rat accumulated 14% of the dose during the 40-minute imaging study. **(C)** A three-channel composite (*AlexaFluor488*, *AlexaFluor647*, *IRDye800CW*, 20x), which demonstrates co-localization (overlapping stains result in yellow) of tilmanocept (red) and CD206 (green) within the glomerular compartment (blue).