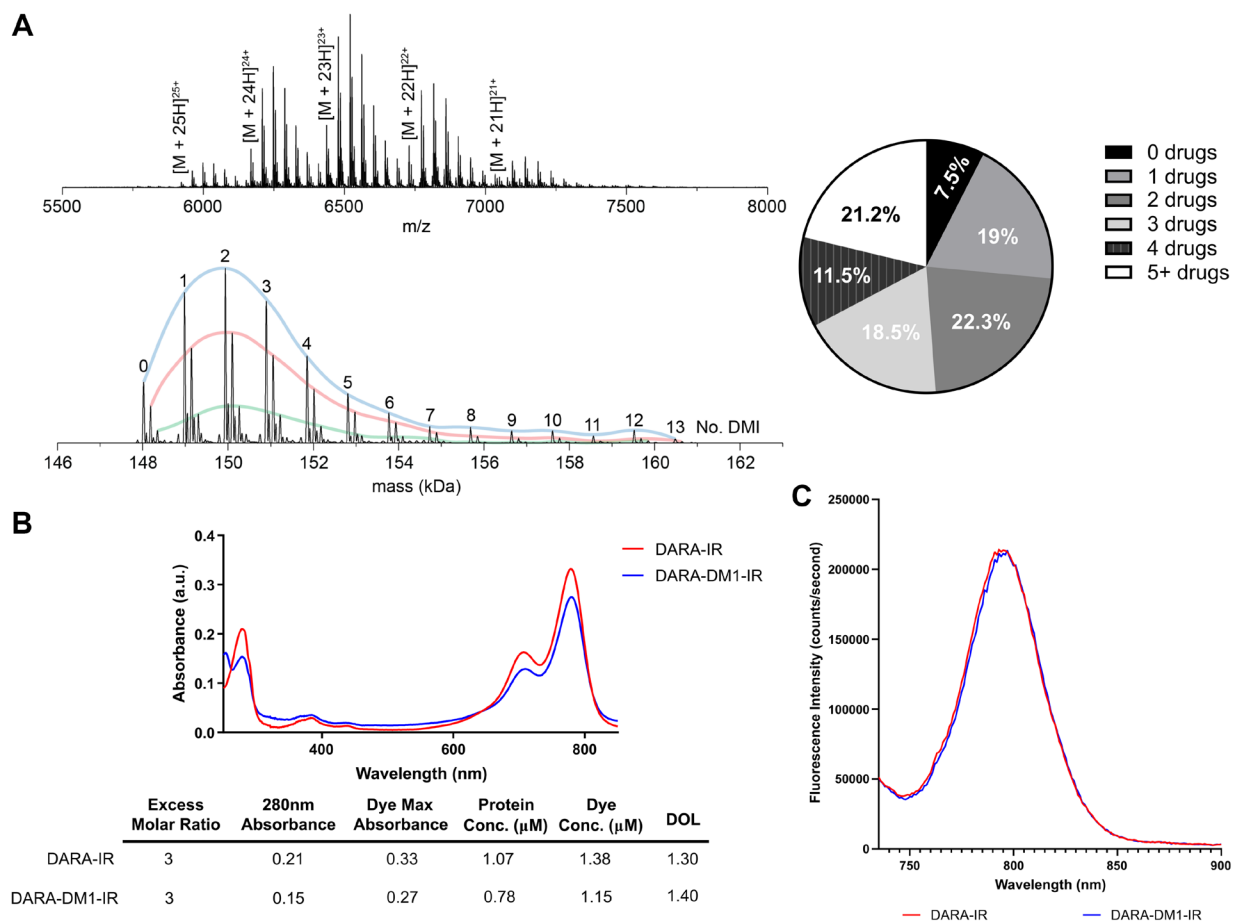
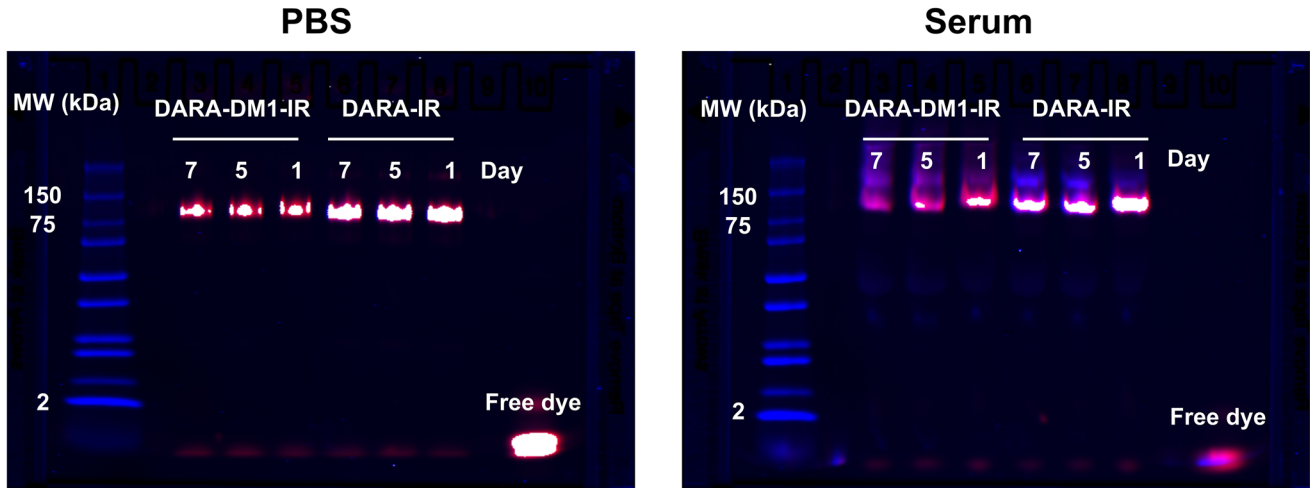


# Tissue biodistribution and tumor targeting of near-infrared labelled anti-CD38 antibody-drug conjugate in preclinical multiple myeloma

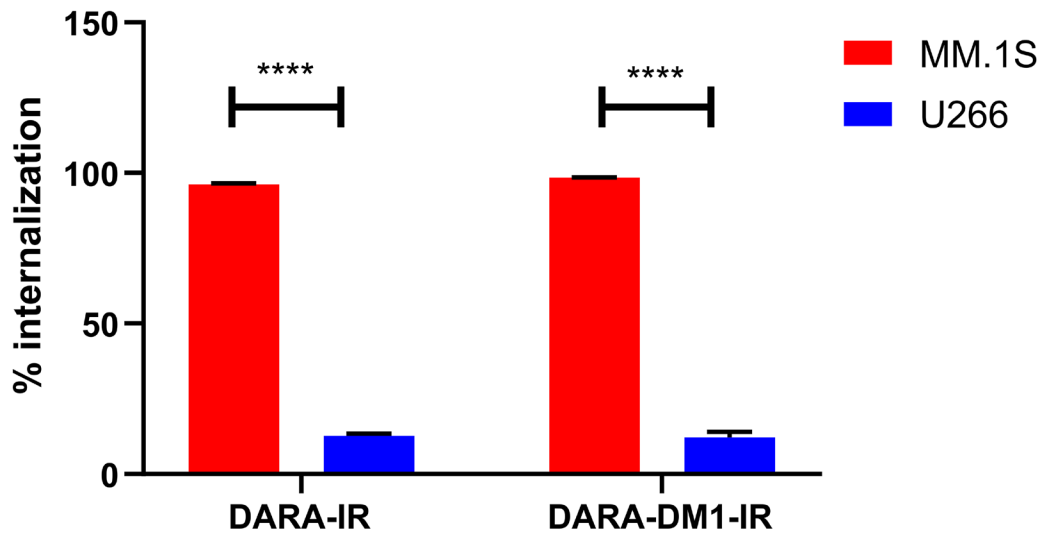
## SUPPLEMENTARY MATERIALS



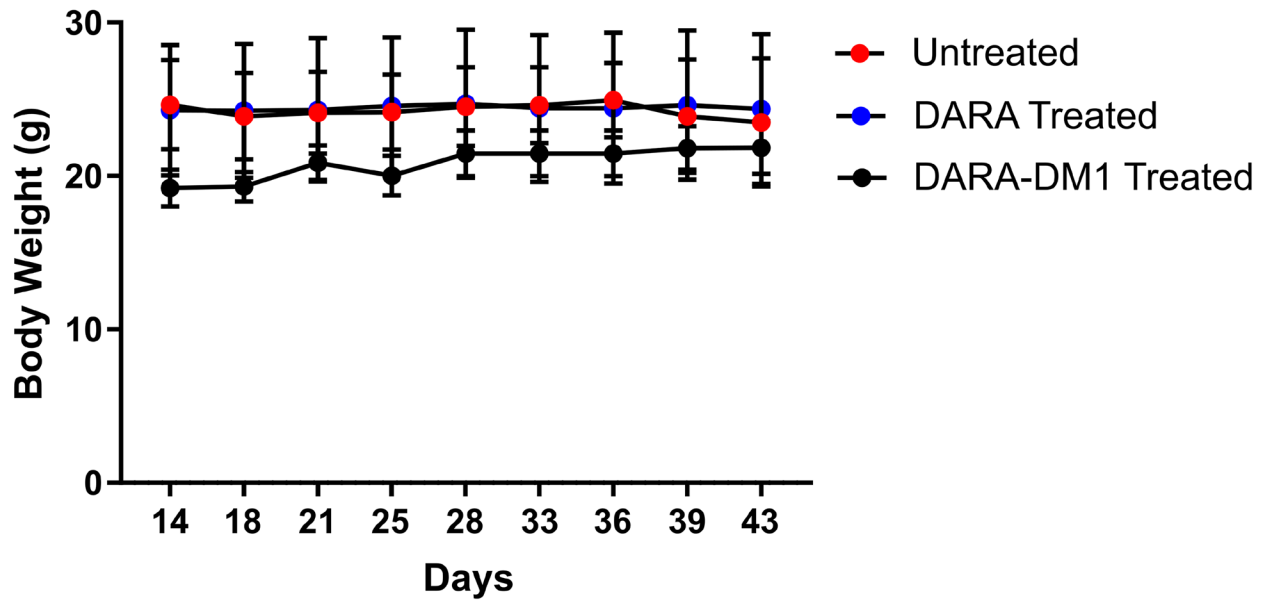
**Supplementary Figure 1: Analytical characterization of DARA-DM1 and DARA-DM1-IR.** (A) Representative mass spectrometry spectra and percent distribution of DARA with 1, 2, 3, 4 or 5+ DM1 drugs per antibody at a 20 to 1 conjugation ratio. (B) Antibody-dye absorbance spectra of DARA-DM1-IR and DARA-IR. After reaction and purification, the absorbance spectrum for DARA-DM1-IR and DARA-IR were used to determine the DoL as described in the methods section. DoL was determined by dividing bulk fluorophore concentration by antibody concentration. (C) Fluorescence emission spectra of DARA-DM1-IR and DARA-IR.



**Supplementary Figure 2: *In vitro* stability of DARA-DM1-IR and DARA-IR.** SDS-PAGE of DARA-DM1-IR and DARA-IR incubated in PBS and human serum between 1 and 7 days.



**Supplementary Figure 3: Internalization of DARA conjugates.** Flow cytometric analysis of percent of MM.1S and U266 cells internalized with DARA-IR and DARA-DM1-IR in LAMP-1<sup>+</sup> lysosomes 3 hours post-incubation. Student t-tests were performed for each conjugate and cell line. \*\*\*\* $p < 0.0001$ . Error bars represent standard deviation.



**Supplementary Figure 4: Body weights of untreated and treated MM.1S IV mice.** Mean body weights of MM.1S IV mice following treatment with DARA or DARA-DM1. Error bars represent standard deviation.