1) Predict\_Plasmadilution\_Loewe.m:

This MATLAB file describes how plasma dilution curve is computed using Loewe additivity.

2) Predict\_Plasmadilution\_Bliss.m:

This MATLAB file describes how plasma dilution curve is computed using Bliss Independence.

The above codes were used to predict plasma dilution curve

3) Fig\_CI\_30.mat:

File containing simulations of 100 plasma dilution curves assuming Loewe additivity and 30 mg/ml overall NAb concentration. The predictions are saved in the Fig\_CI\_30.mat file.

4) Plotting\_Fig3B.m

This MATLAB file plots plasma dilution curves saved in Fig\_CI\_30.mat (grey lines), as well as fits to the patient data (blue lines). See Fig 3C in the manuscript.

5) Computing\_NT50.m

This MATLAB file computes NT50 of all the predicted plasma dilution curve. This code was used to predict Fig. 3C.