

Supplementary Data 1: List of statistically significant proteins obtained by Mass Spectrometry analysis of protein pull-downs from human colon biopsies with C9, F4, and F3 scFv2 and SpyC2 as a control run in triplicates (n=3) with respective $-\log_{10}$ value and \log_2 fold change values. Two-sided unpaired t-test with Benjamin Hochberg correction for multiple hypothesis testing was applied to determine differentially expressed proteins (significance threshold set to 1% and fold change to 2). Non-significant hits as defined by ($\log_2FC < 1$ and $-\log_{10}pvalue < 2$) were omitted.

Supplementary Movie 1: Inter-fabs conformational flexibility generated by 3D flex

Supplementary Movie 2: Molecular Dynamics flexible fitting modeling CS glycan chains onto tetrameric fab complex