

Supplementary Figure 7. Biophysical characterization of the purified L111 antibody. A. Analysis of purified L111 antibody integrity by non-reduced (top) and reduced (bottom) capillary electrophoresis-SDS (CE-SDS) on a Perkin Elmer LabChip GXII Touch HT. The table shows the size and migration times of the non-reduced and reduced antibody samples. B. Size-exclusion chromatography high-performance liquid chromatography (SEC-HPLC) analysis of the purified L111 antibody. The table shows the percentage of monomers and high molecular weight species (HMWS). C. Cation-exchange chromatography of the purified L111 antibody. D. Deconvoluted mass spectrometry spectra of the purified L111 antibody. E and F. Analysis of Fc N-Glycan profiles and major glycans distribution by Hydrophilic interaction liquid chromatography (HILIC)-in combination with fluorescence detection (FLD). **F.** Table shows the percentage of each N-Glycan in the L111 antibody.

N-Glycan Peak Name	GU	L111 Area %
n.i. 2	5.04	0.61
n.i. 3	5.37	5.12
A2	5.51	0.82
FA2	5.80	76.95
M5*	6.06	0.20
M5	6.13	7.29
n.i. 4	6.37	2.00
FA2G1	6.46	1.81
n.i. 5	6.54	0.57
FA2G1'	6.58	0.79
FA2BG1	6.66	0.91
n.i. 6	6.71	0.14
M6*	6.84	0.66
M6	6.94	0.81
n.i. 8	7.05	0.20
M7	7.81	0.56
FA2BG2S1	8.55	0.41
M8	8.66	0.15

Supplementary Figure 7