**Figure 1**

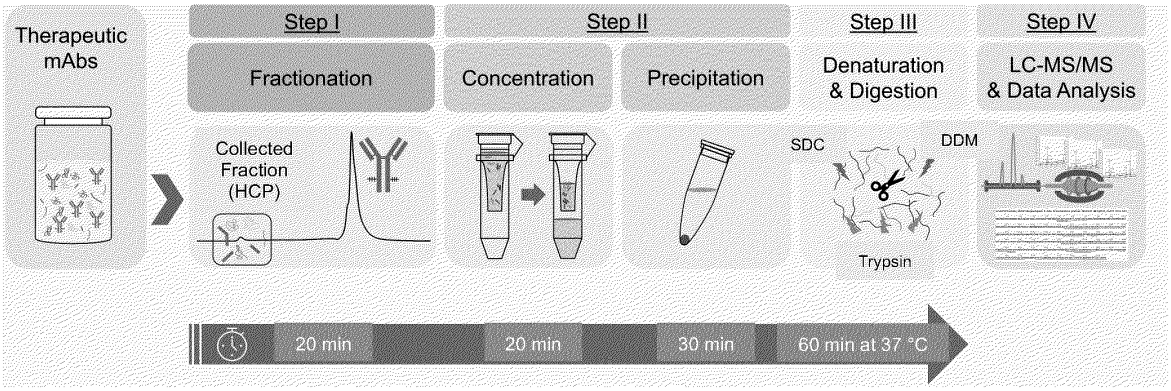



**Figure 2**

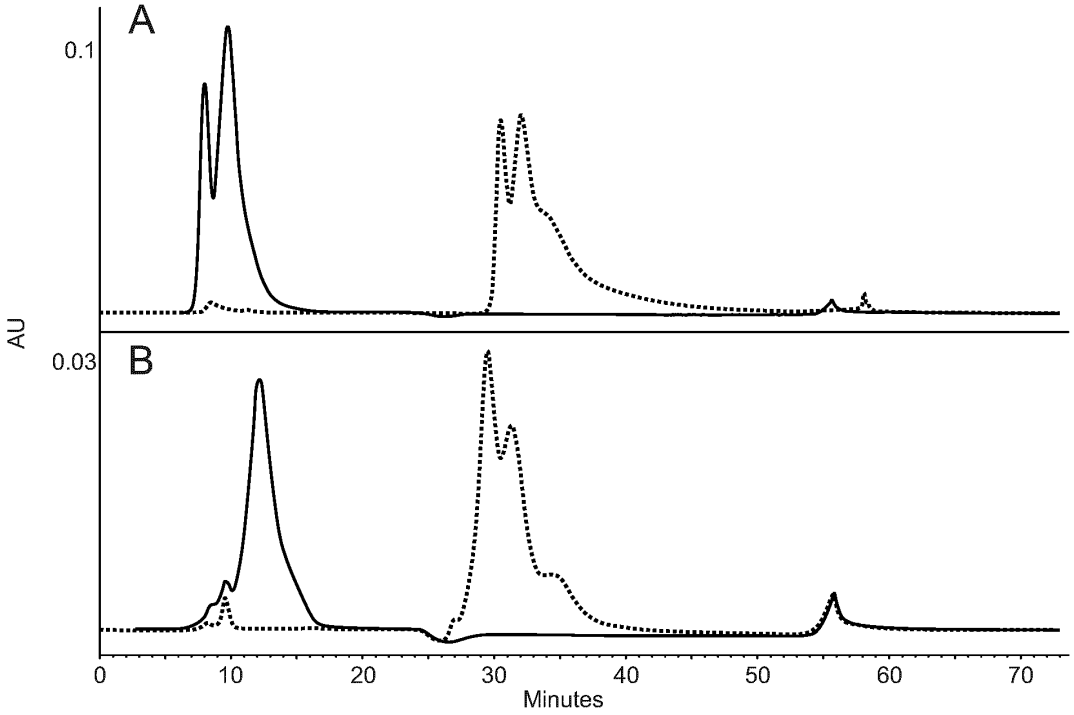


Figure 3

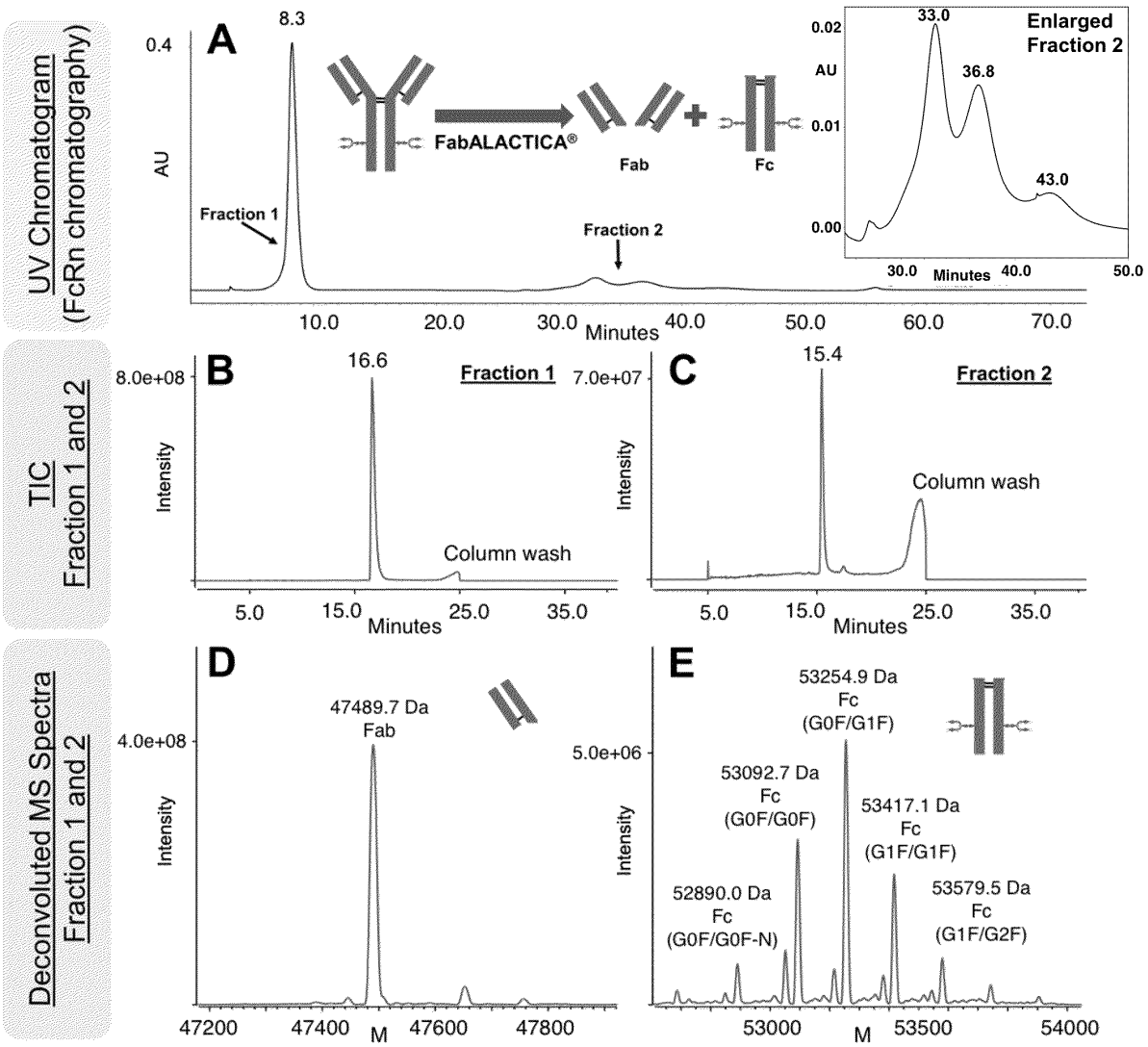

UV Chromatogram (FcRn chromatography)
A
8.3
0.4
AU
FabALACTICA®
Fab
Fc
Fraction 1
Fraction 2
Enlarged Fraction 2
33.0
36.8
43.0
0.02
0.01
0.00
AU
30.0 Minutes 40.0 50.0
10.0 20.0 30.0 Minutes 40.0 50.0 60.0 70.0
TIC Fraction 1 and 2
B
16.6
Fraction 1
8.0e+08
Intensity
Column wash
5.0 15.0 Minutes 25.0 35.0
C
15.4
Fraction 2
7.0e+07
Intensity
Column wash
5.0 15.0 Minutes 25.0 35.0
Deconvoluted MS Spectra Fraction 1 and 2
D
47489.7 Da
Fab
4.0e+08
Intensity
47200 47400 M 47600 47800
E
53254.9 Da
Fc
(G0F/G1F)
53092.7 Da
Fc
(G0F/G0F)
53417.1 Da
Fc
(G1F/G1F)
52890.0 Da
Fc
(G0F/G0F-N)
53579.5 Da
Fc
(G1F/G2F)
5.0e+06
Intensity
53000 M 53500 54000

**Figure 4**

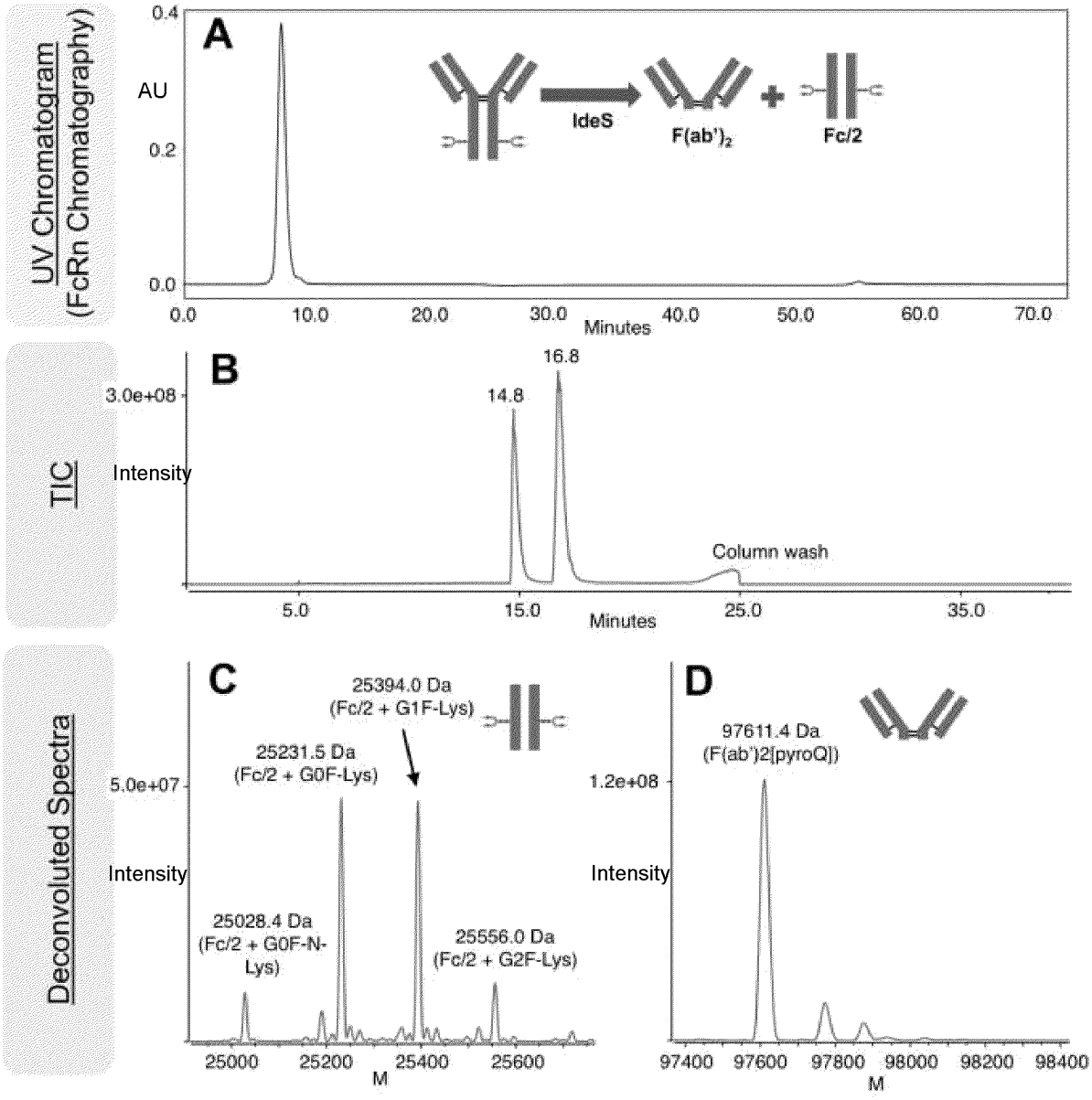

UV Chromatogram (FcRn Chromatography)
A
AU
0.4
0.2
0.0
IdeS
F(ab')2
Fc/2
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
Minutes
TIC
B
3.0e+08
Intensity
16.8
14.8
Column wash
5.0
15.0
25.0
35.0
Minutes
Deconvoluted Spectra
C
25394.0 Da
(Fc/2 + G1F-Lys)
25231.5 Da
(Fc/2 + G0F-Lys)
5.0e+07
Intensity
25028.4 Da
(Fc/2 + G0F-N-Lys)
25556.0 Da
(Fc/2 + G2F-Lys)
25000
25200
25400
25600
M
D
97611.4 Da
(F(ab')2[pyroQ])
1.2e+08
Intensity
97400
97600
97800
98000
98200
98400
M

**Figure 5**

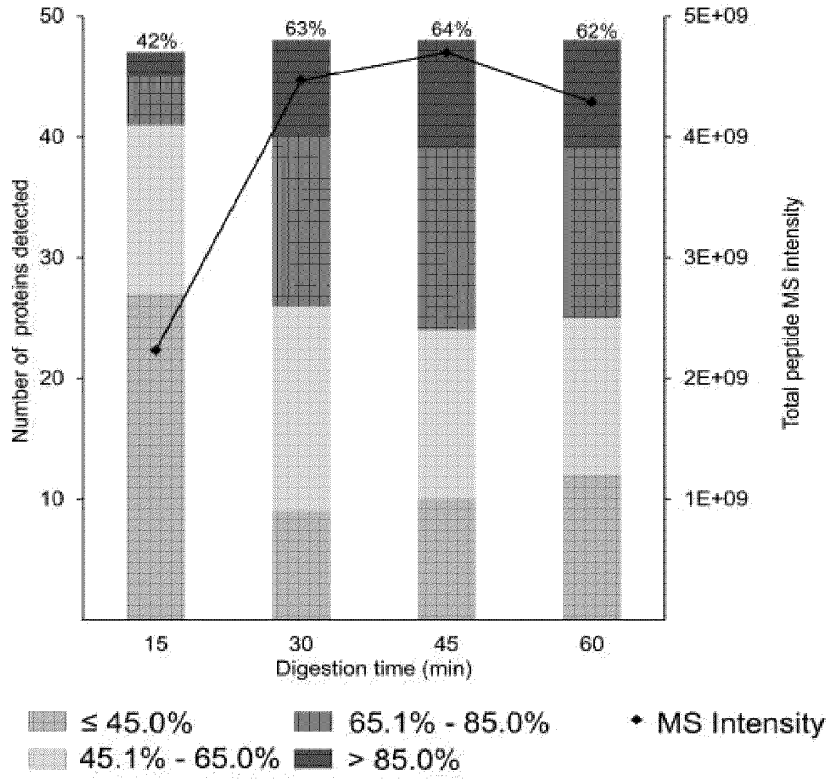



**Figure 6**

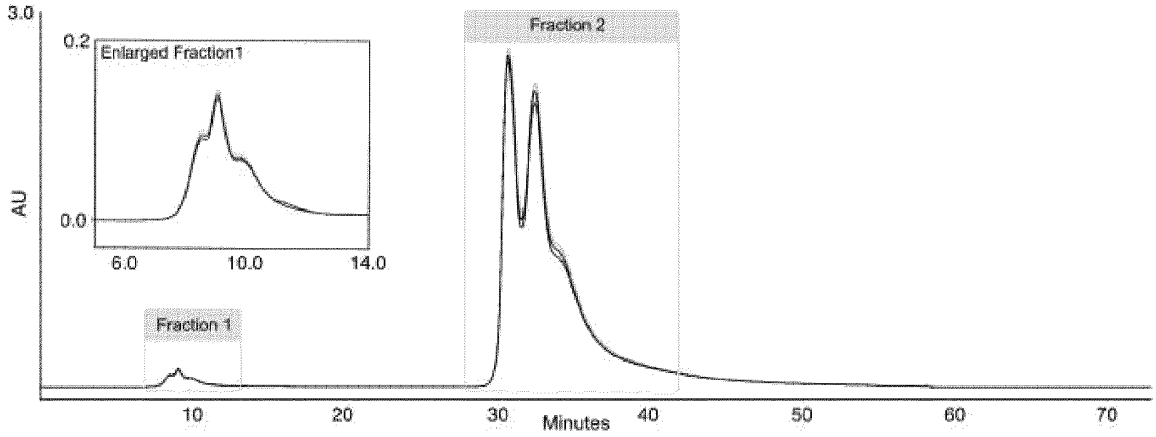


Figure 7

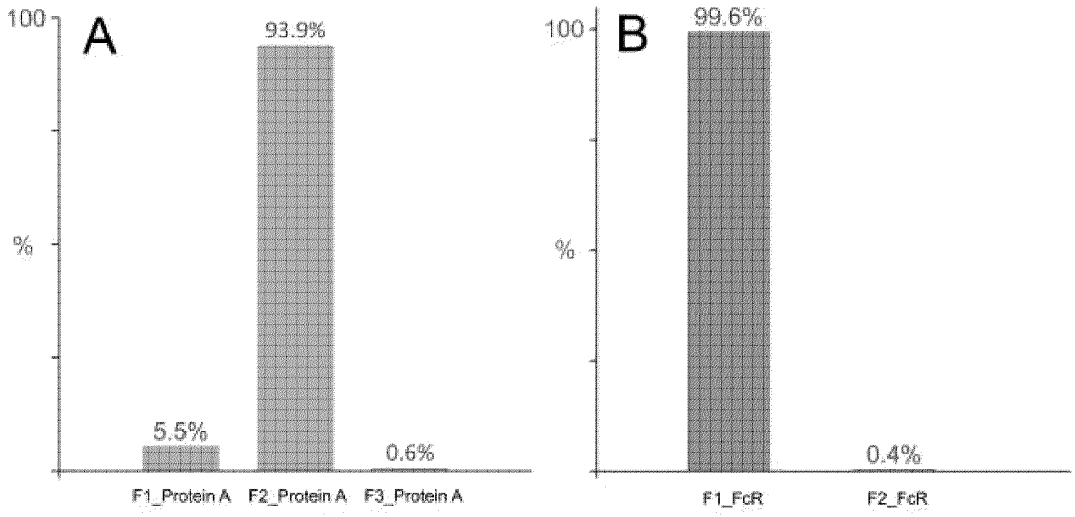
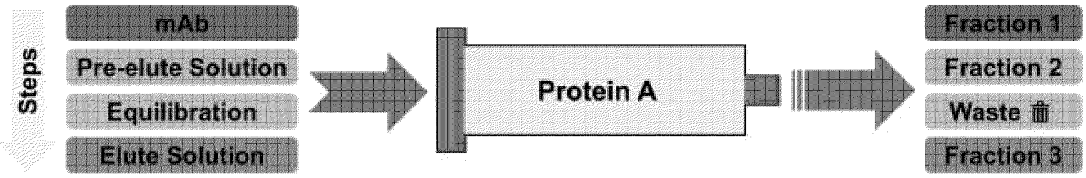



Figure 8




- **Pre-elute solution:** 10 mM Tris, 100 mM L-arginine, 1.0 M NaCl, 500 mM TMAC, pH=10.0
- **Equilibration:** 20 mM $Na_2HPO_4$, pH=7.3
- **Elute solution:** 100 mM glycine, pH=2.8