

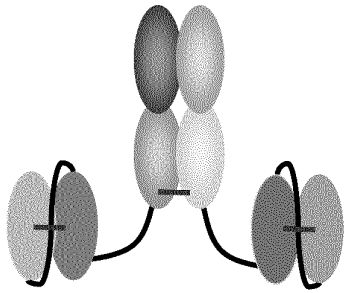
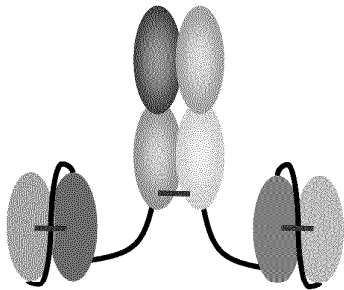
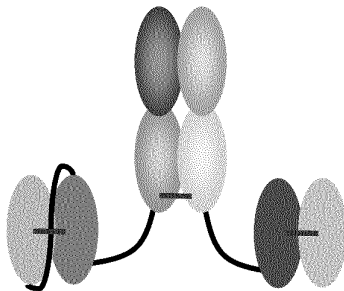
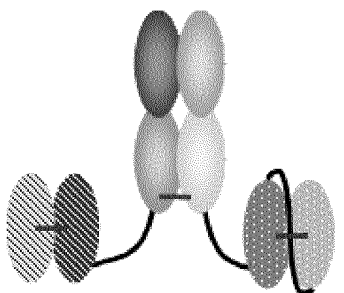
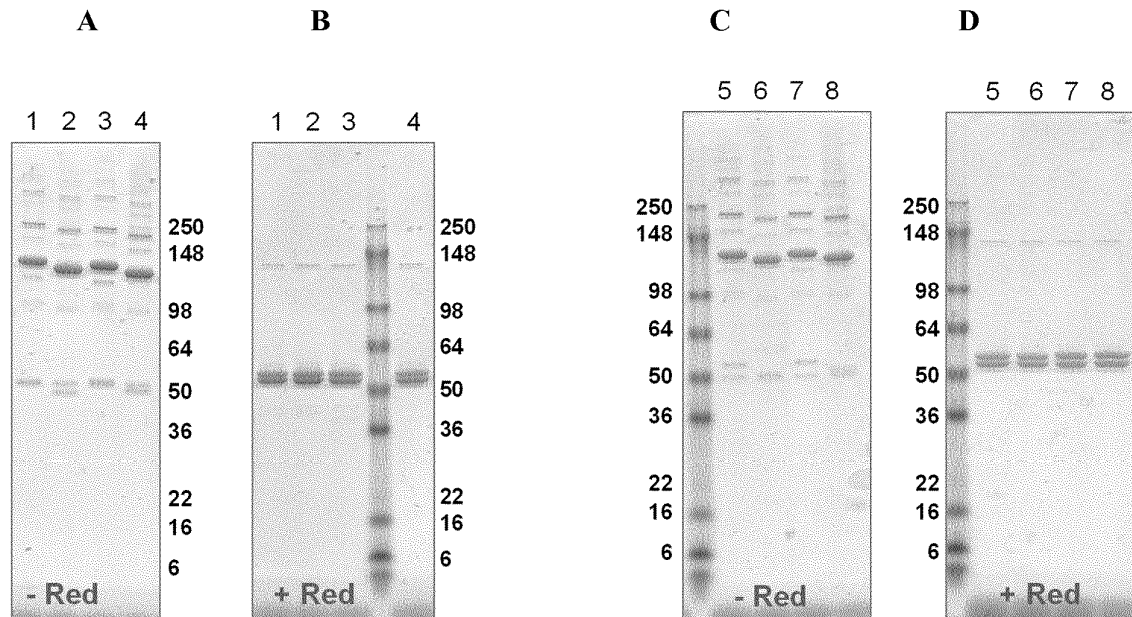
Figure 1:**Fab-2x dsscFv formats and Fab-dsscFv-dsFv format****Fab#2-(HC)-dsscFv#3-(LC)-dsscFv#4****Fab#2-(LC)-dsscFv#3-(HC)-dsscFv#4****Fab-(HC)dsscFv-(LC)dsFv****Fab-(HC)dsFv-(LC)dsscFv**

Figure 2:

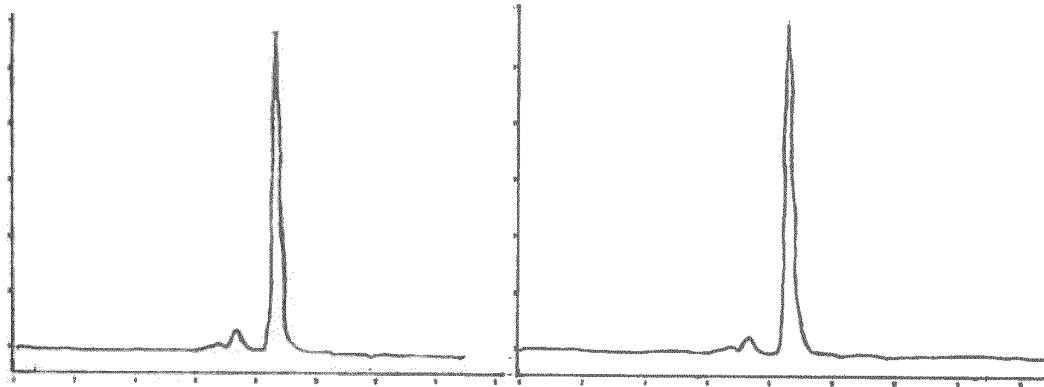
SDS-PAGE analysis of protein G-purified, HEK293-expressed Fab-1xdsscFv, 1xscFv and Fab-2xdsscFv proteins



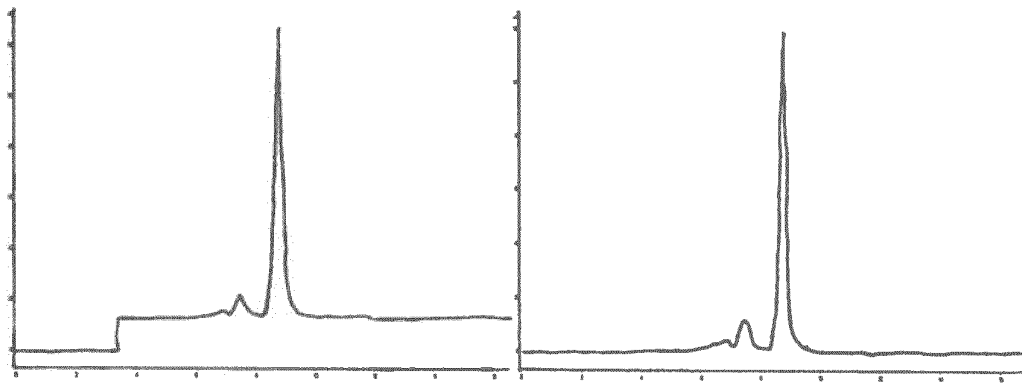
1. Fab#2-(HC) dsHLscFv#3, (LC) HLscFv#4
2. Fab#2-(HC)dsHLscFv#3, (LC)dsHLscFv#4
3. Fab#2-(HC)dsHLscFv#3, (LC)LHscFv#4
4. Fab#2-(HC)dsHLscFv#3, (LC)dsLHscFv#4
5. Fab#2-(LC)dsHLscFv#3, (HC)HLscFv#4
6. Fab#2-(LC)dsHLscFv#3, (HC)dsHLscFv#4
7. Fab#2-(LC)dsHLscFv#3, (HC)LHscFv#4
8. Fab#2-(LC)dsHLscFv#3, (HC)dsLHscFv#4

Figure 3: G3000 SE HPLC analysis of protein G-purified, HEK293-expressed Fab-1xdsscFv, 1xscFv and Fab-2xdsscFv proteins

1. Fab#2 HC-dsHL#3 LC-HL#4: 86% monomer 2. Fab#2 HC-dsHL#3 LC-dsHL#4: 89% monomer



3. Fab#2 HC-dsHL#3 LC-LH: 84% monomer 4. Fab#2 HC-dsHL#3 LC-dsLH#4: 83% monomer



5. Fab#2 LC-dsHL#3 HC-HL#4: 85% monomer 6. Fab#2 LC-dsHL#3 HC-dsHL#4: 88% monomer

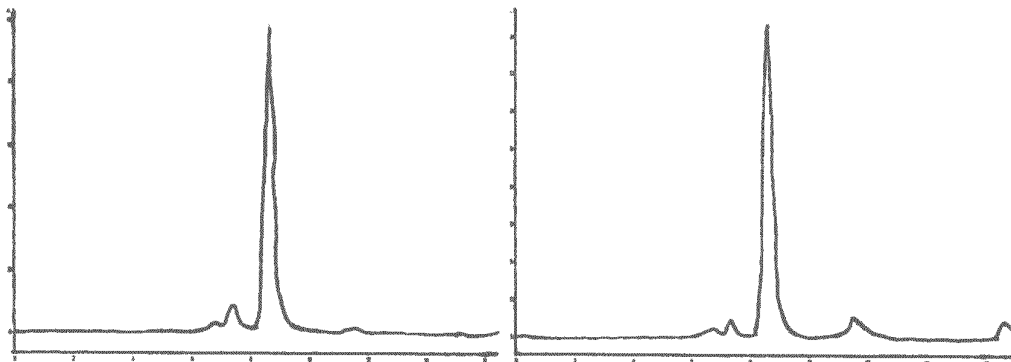


Figure 3 continued

7. Fab#2 LC-dsHL#3 HC-LH#4: 88% monomer 8. Fab#2 LC-dsHL#3 HC-dsLH#4: 83% monomer

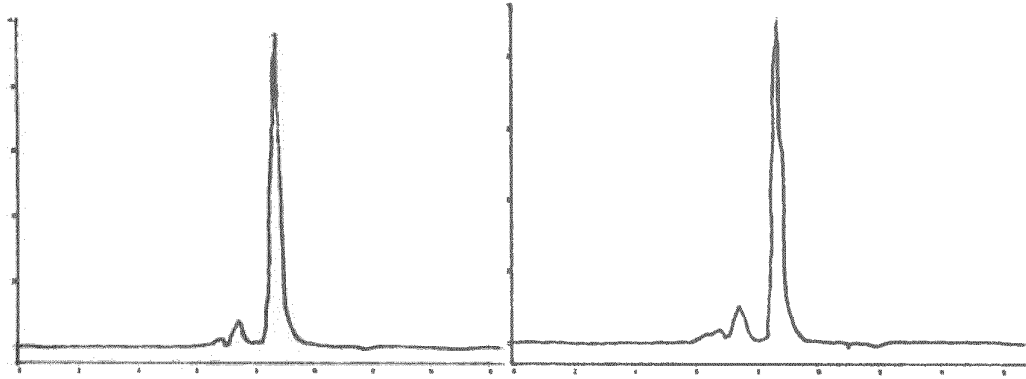


Figure 4: SDS-PAGE analysis of purified, HEK293-expressed Fab-2xdsscFv#3 proteins

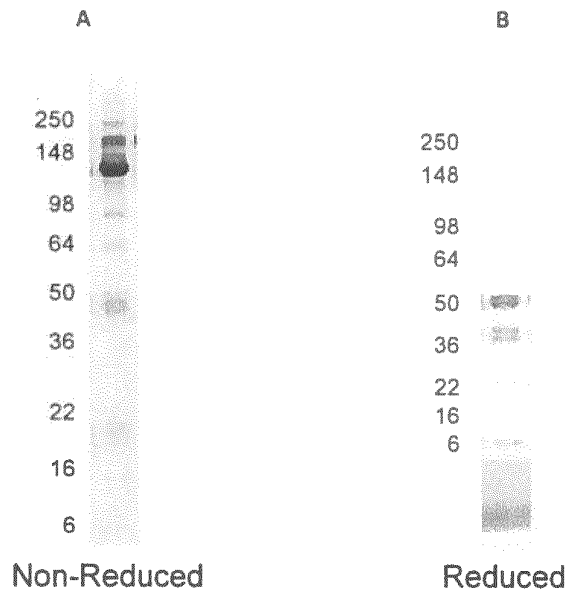
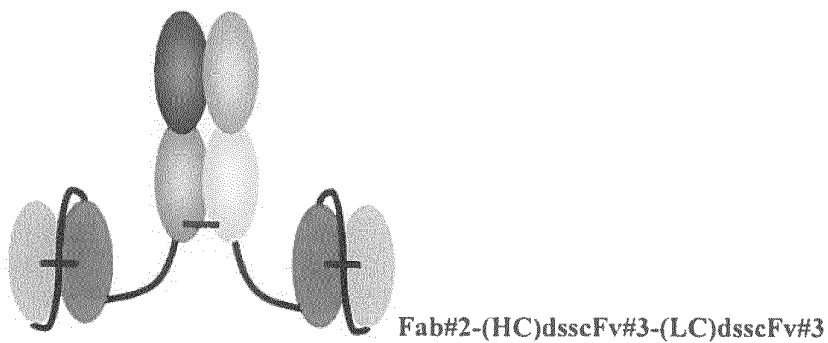


Figure 5: S200 SE HPLC analysis of purified, HEK293-expressed Fab-2xdsscFv#3 proteins

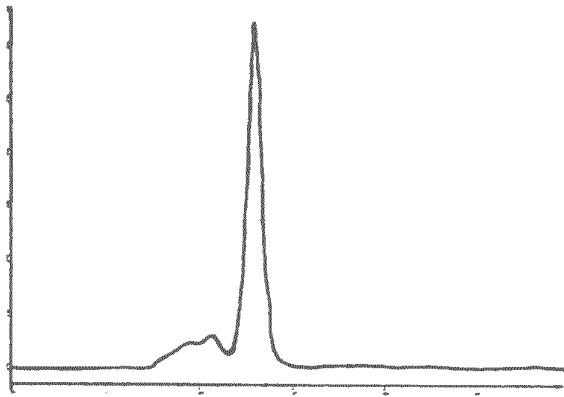


Figure 6: SDS-PAGE analysis of protein G-purified, HEK293 expressed Fab#2-(HC)dsscFv#3-(LC) dsscFv#1 and Fab#2-(HC)dsscFv#3-(LC)dsFv#1 (LC-vL linked) proteins

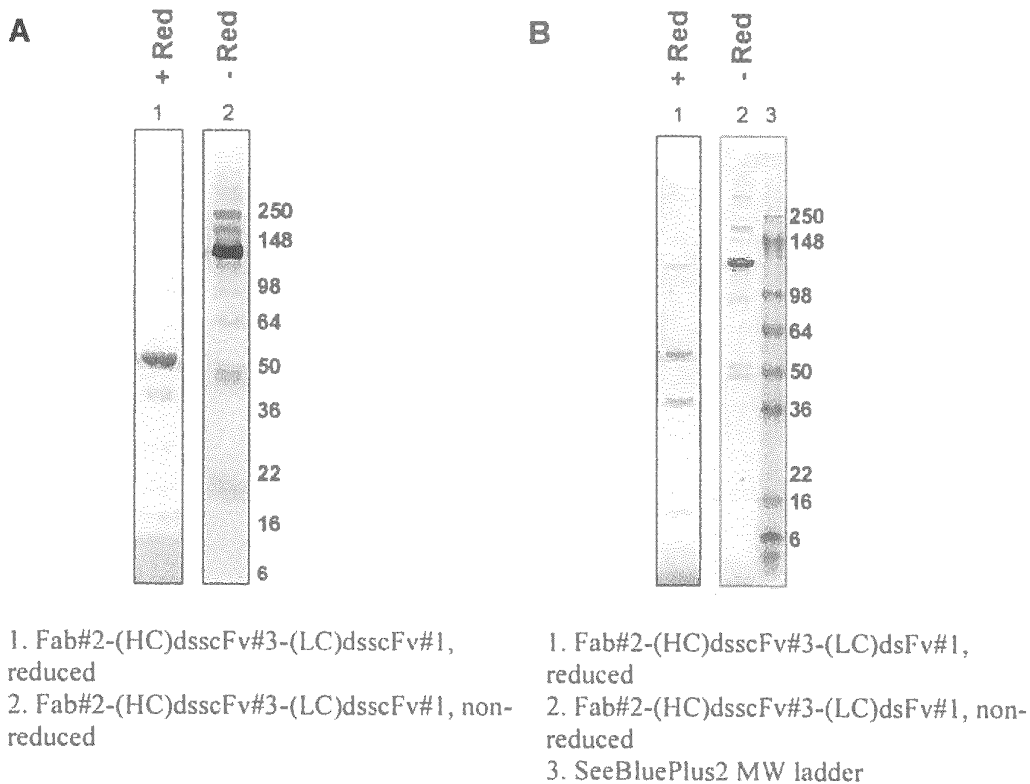


Figure 6 Continued

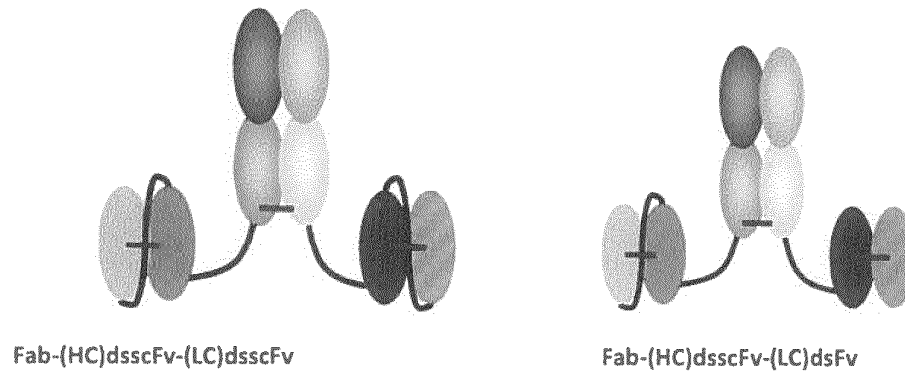
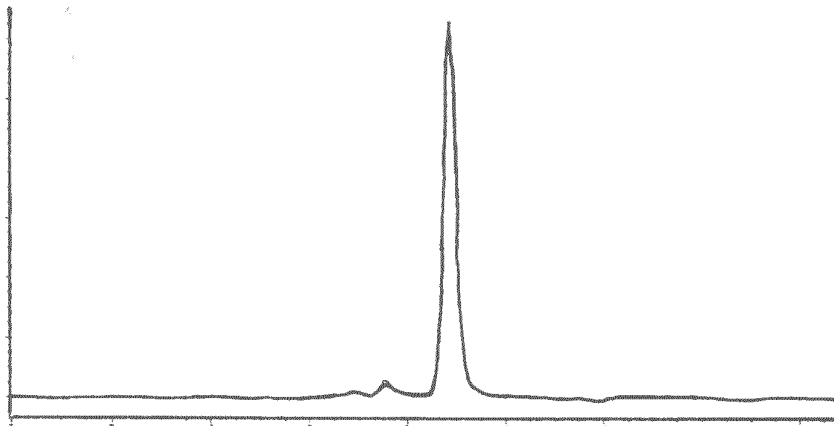


Figure 7: G3000 SE HPLC analysis of protein G-purified, HEK293 expressed Fab#2-(HC)dsscFv#3-(LC)dsscFv#1 and Fab#2-(HC)dsscFv#3-(LC)dsFv#1 (LC-vL linked) proteins

Fab#2-(HC)dsscFv#3-(LC)dsFv#1: 91% monomer



Fab#2-(HC)dsscFv#3-(LC)dsscFv#1: 30% monomer

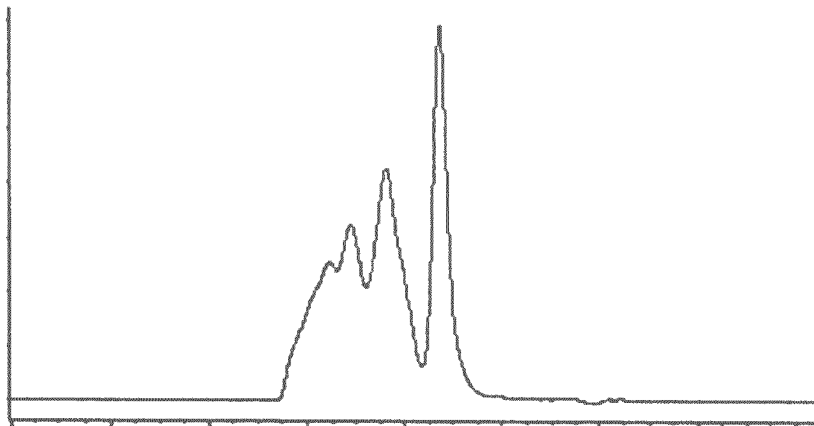
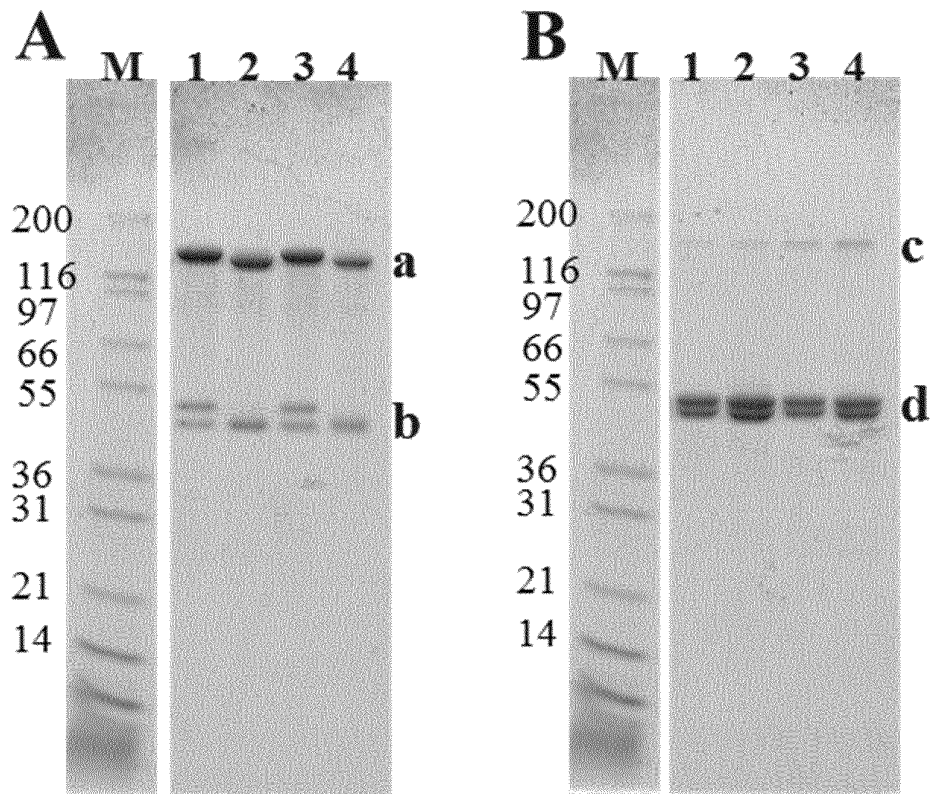


Figure 8 SDS-PAGE Analysis under Reducing Conditions

M: Mark12 protein standard (Life Technologies)

1. Fab#2-(LC)dsHLscFv#3,(HC)HLscFv#4

2. Fab#2-(LC)dsHLscFv#3,(HC)dsHLscFv#4

3. Fab#2-(LC)dsHLscFv#3,(HC)LHscFv#4

4. Fab#2-(LC)dsHLscFv#3,(HC)dsLHscFv#4

Figure 9

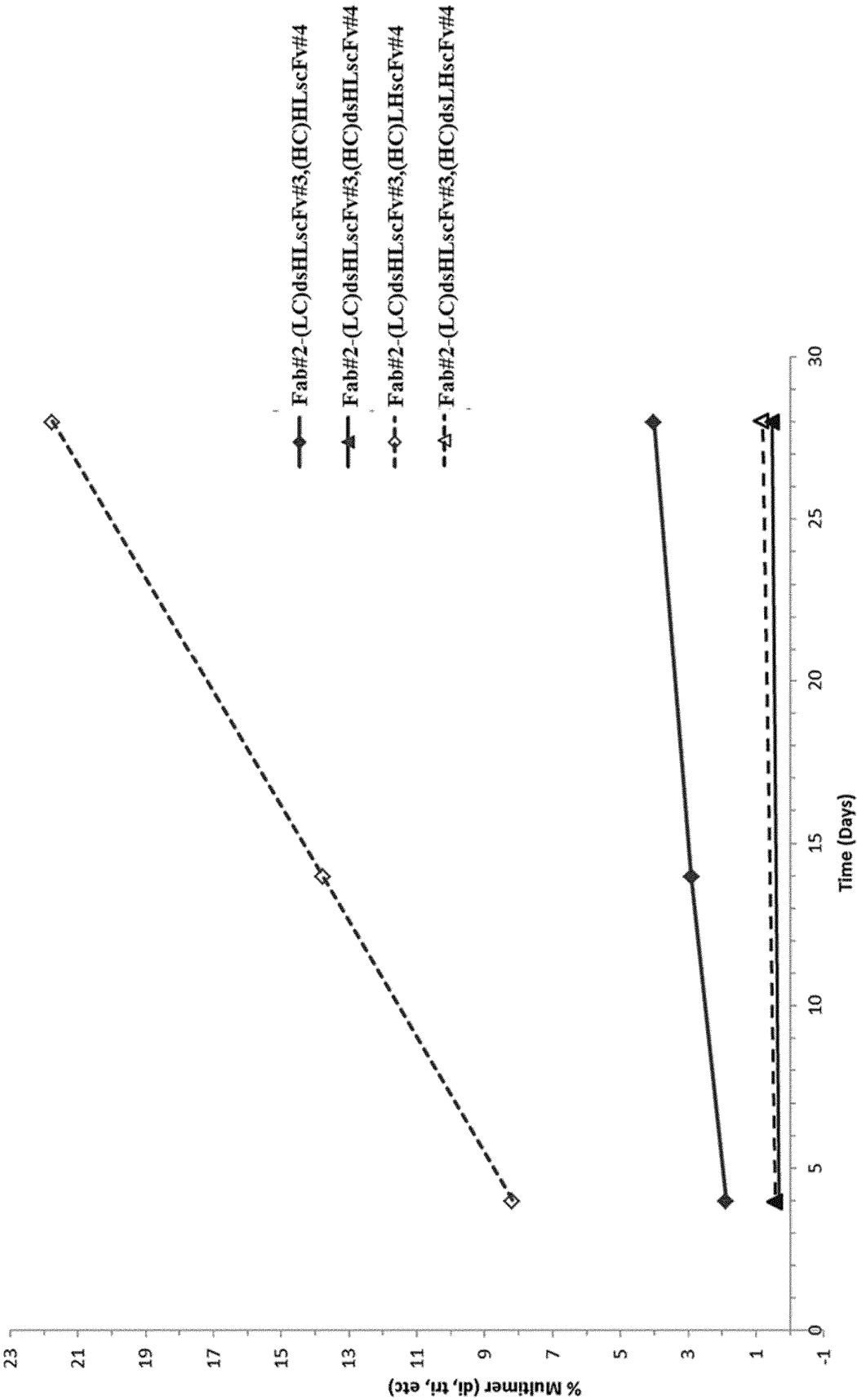


Figure 10 SDS-PAGE analysis of Protein-G purified, EXPiHEK expressed Fab-2xscFv and Fab-2xdsScFv formats

