

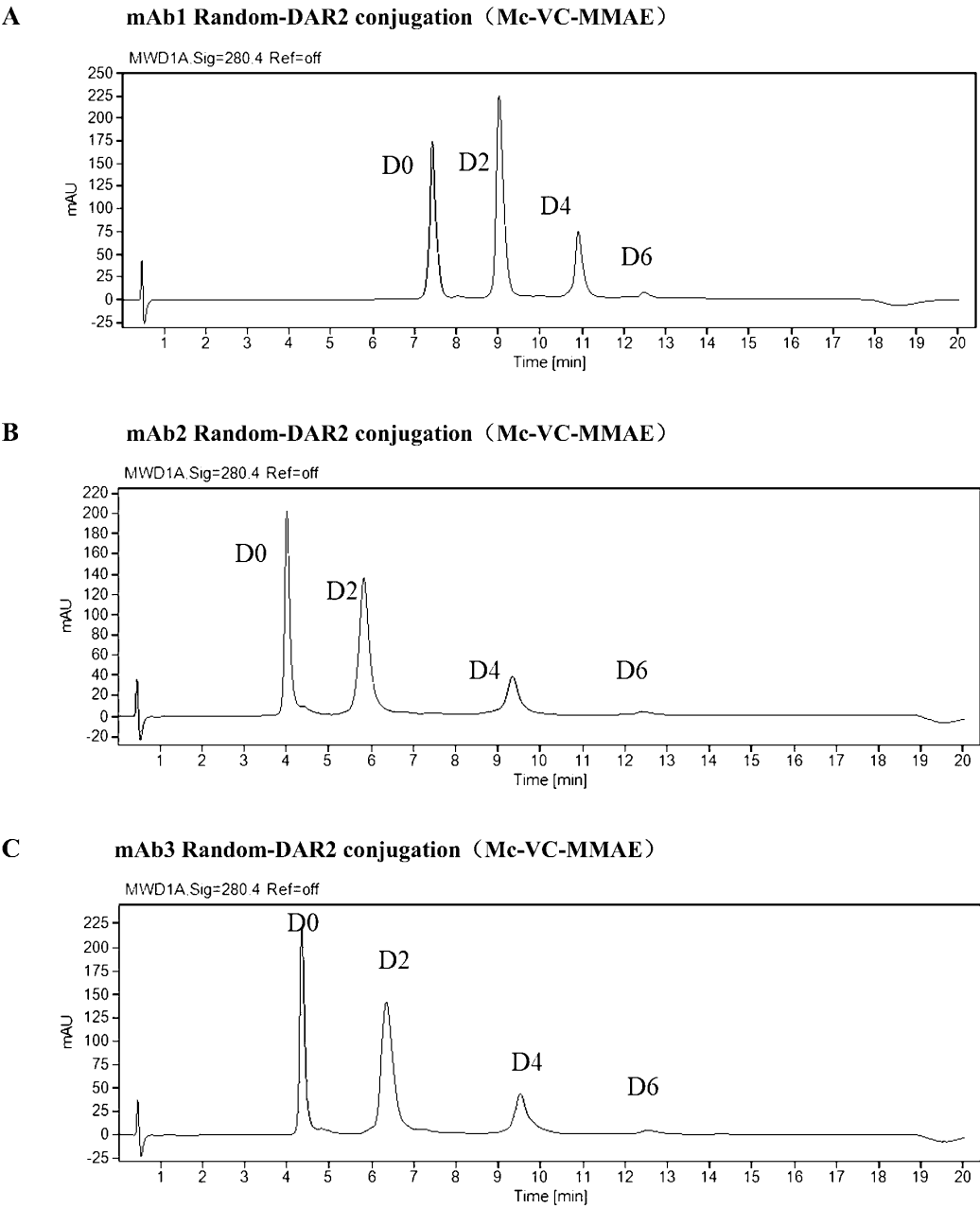
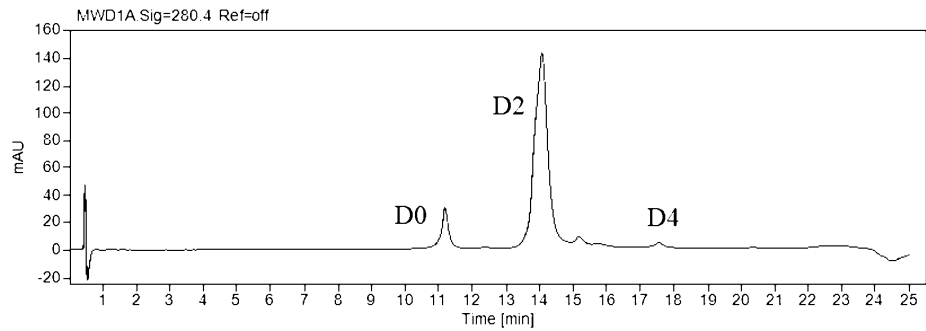
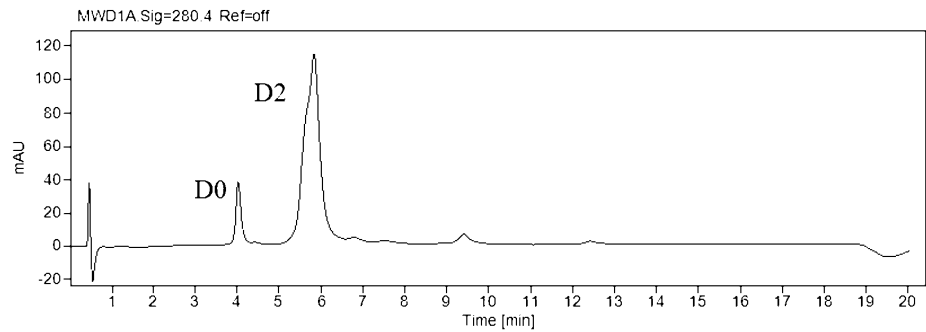


Fig. 1

A mAb1 DAR2 conjugation (Mc-VC-MMAE)



B mAb2 DAR2 conjugation (Mc-VC-MMAE)



C mAb3 DAR2 conjugation (Mc-VC-MMAE)

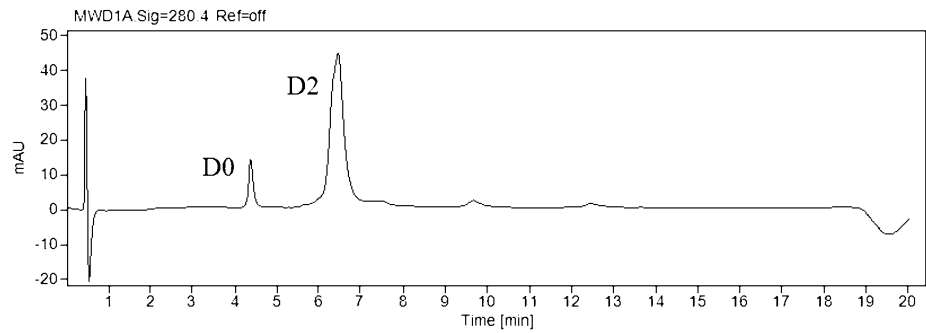


Fig. 2

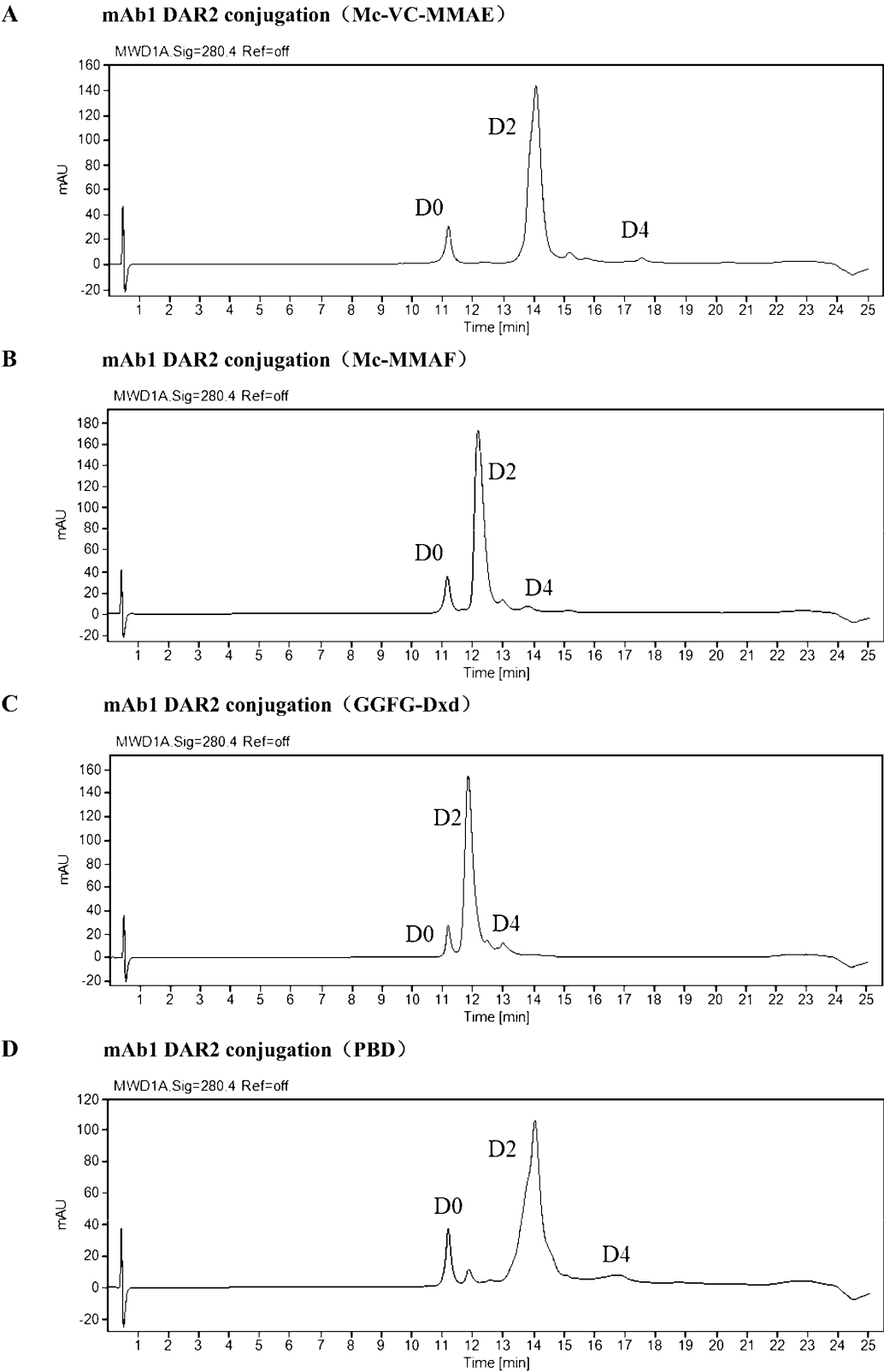
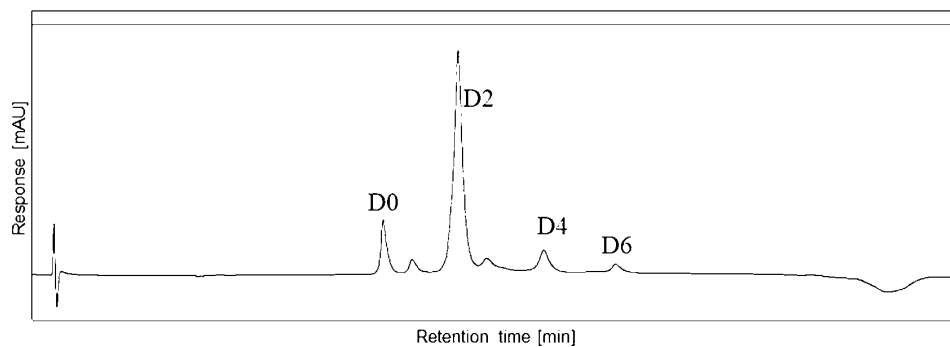
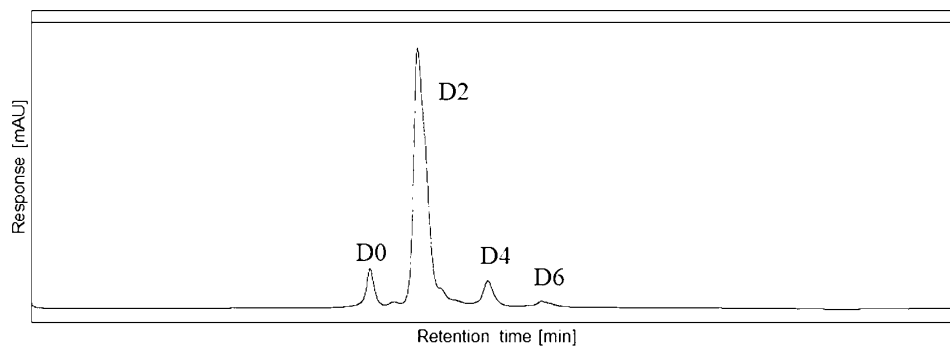
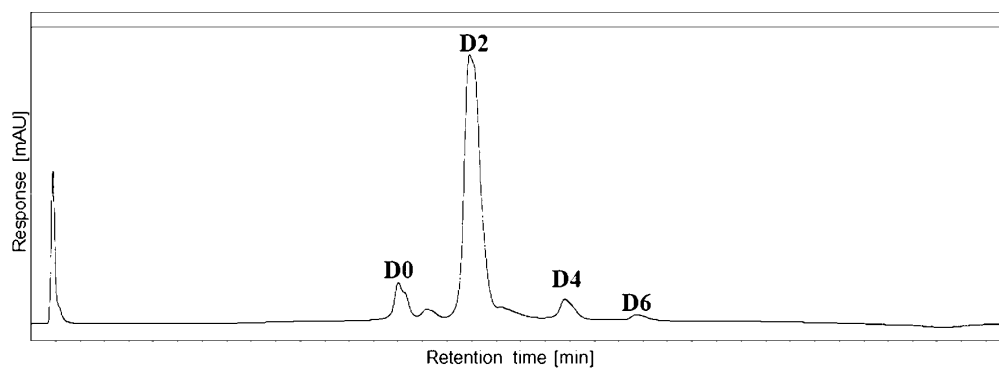
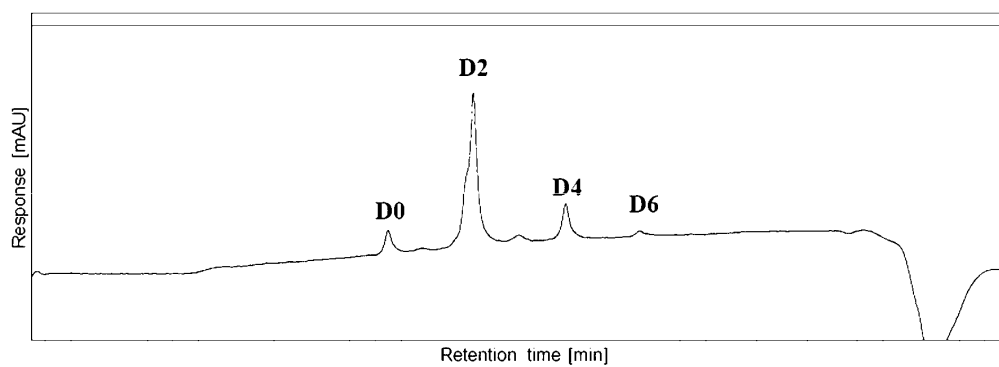
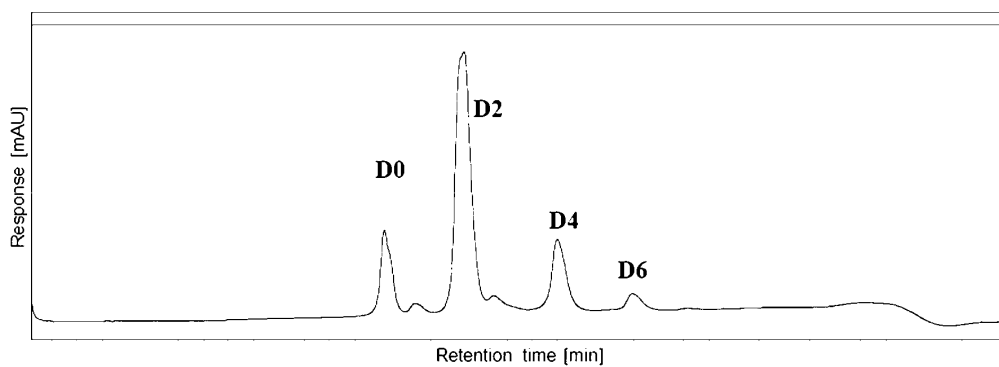
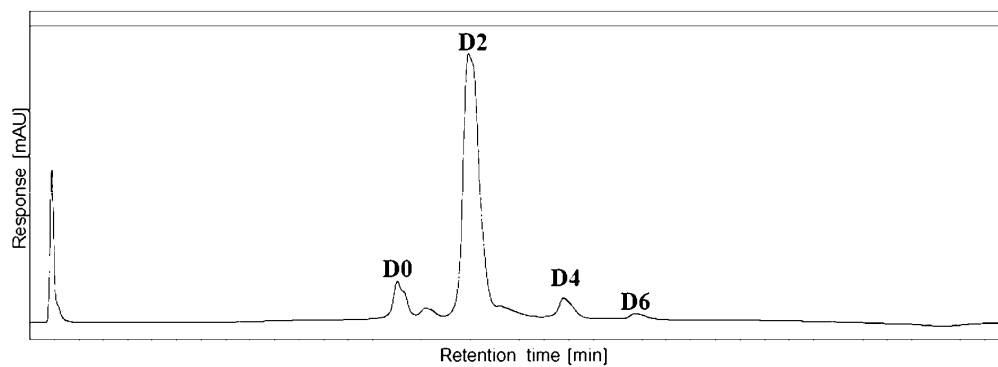
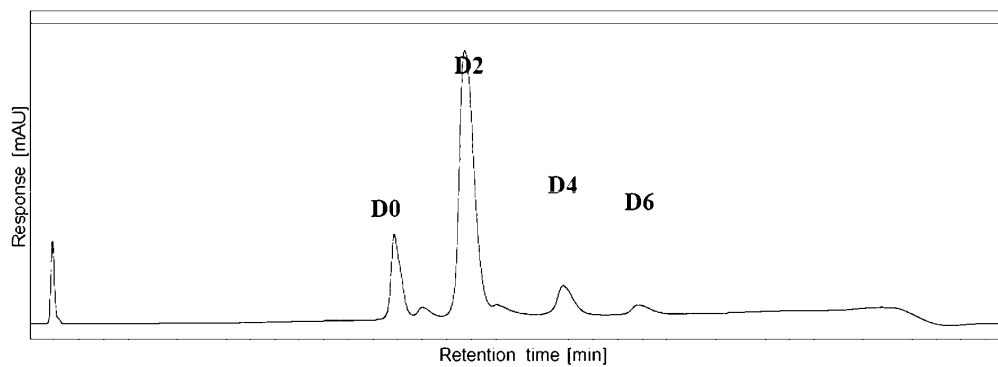
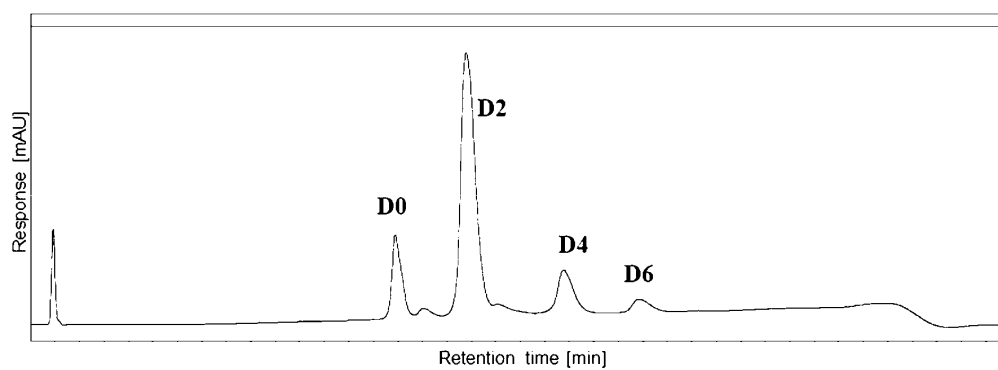


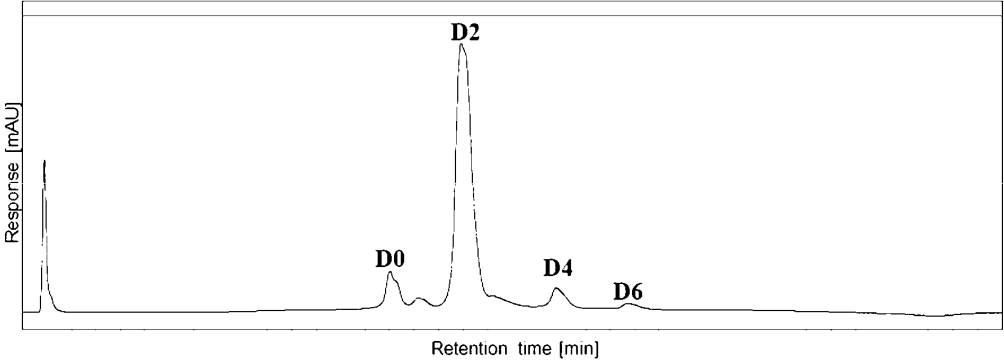
Fig. 3

E mAb1 DAR2 conjugation (DL1-VC-PAB-MMAE)**F** mAb1 DAR2 conjugation (DM21)**Fig. 3 (continued)**

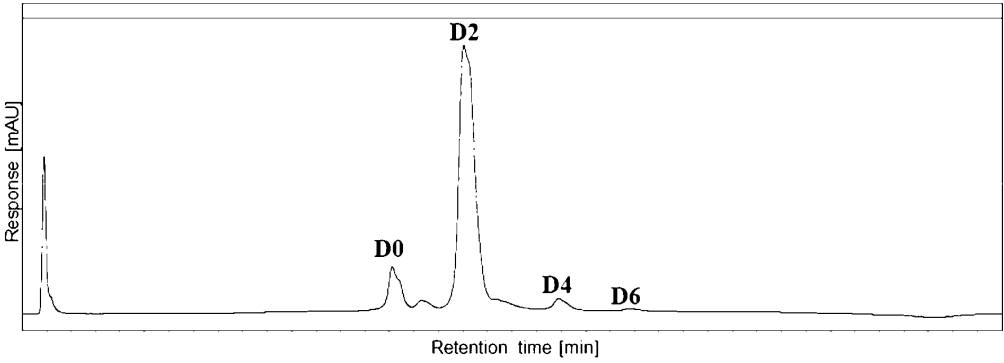
A mAb1 3.25eq TCEP**B** mAb1 35eq diPPBS1**C** mAb1 10.00eq DPAA**Fig. 4**

D mAb1 3.25eq TCEP**E** mAb1 10eq TCEP**F** mAb1 16eq TCEP**Fig. 4 (continued)**

A mAb1 HEPES



B mAb1 MES



C mAb1 Tris

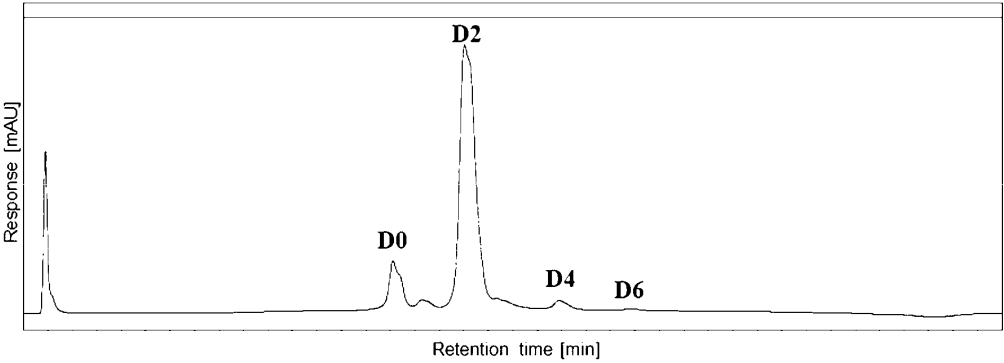
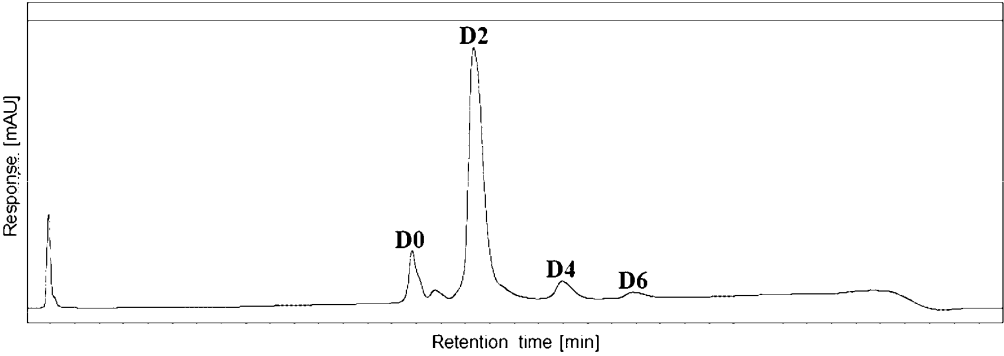
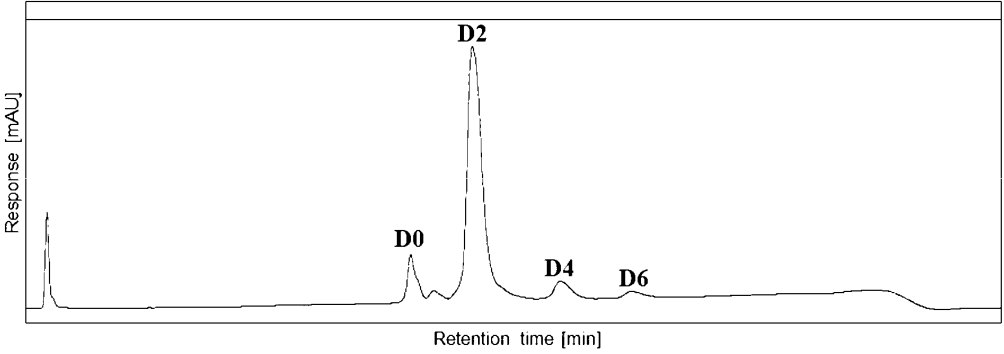


Fig. 5

A **mAb3 HEPES**



B **mAb3 MES**



C **mAb3 Tris**

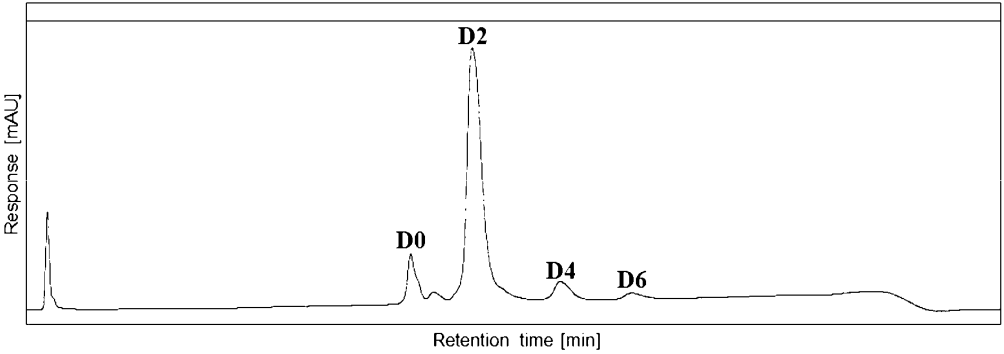


Fig. 6

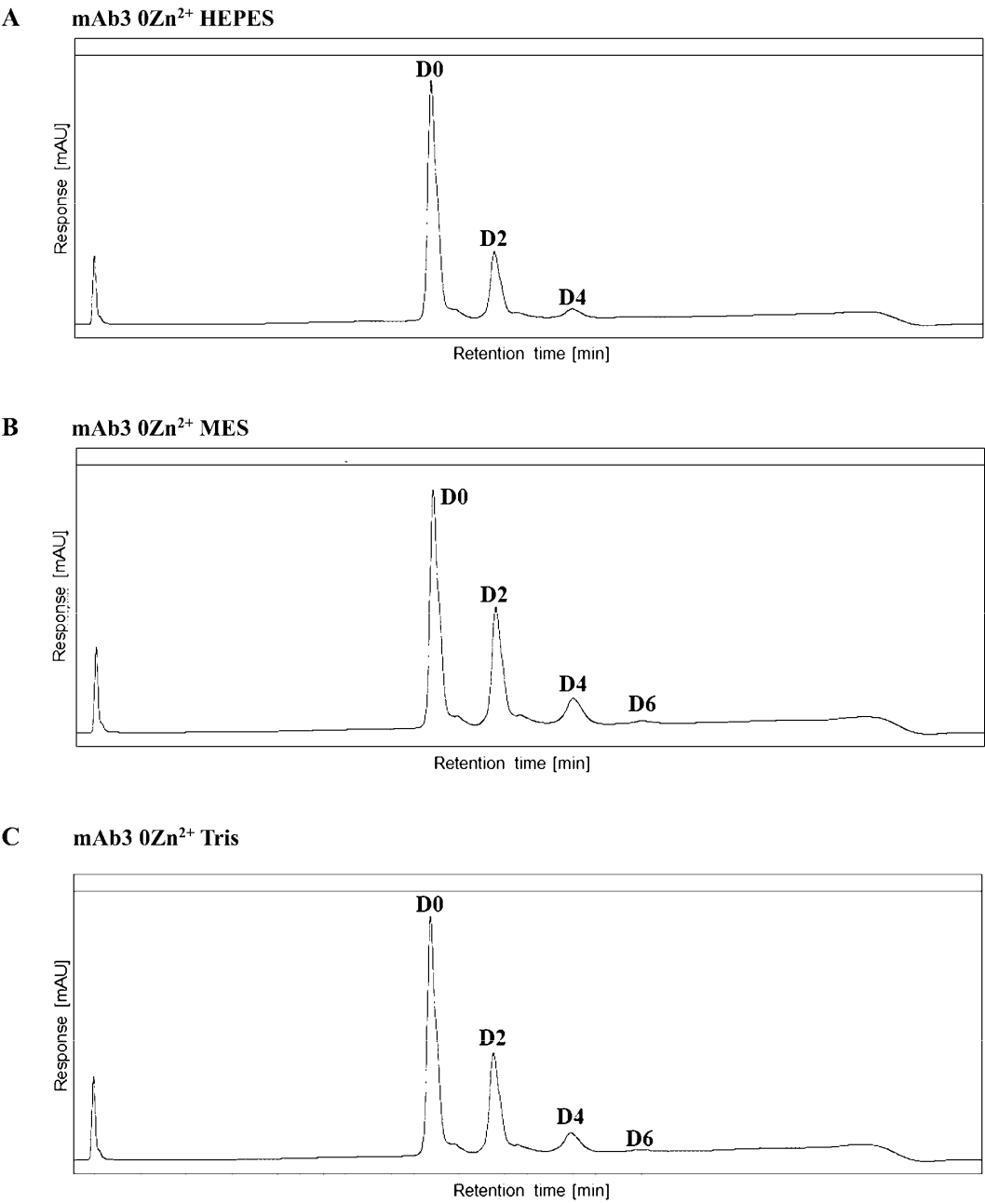


Fig. 7

mAb4 (wuxibody) conjugation (Mc-VC-MMAE)

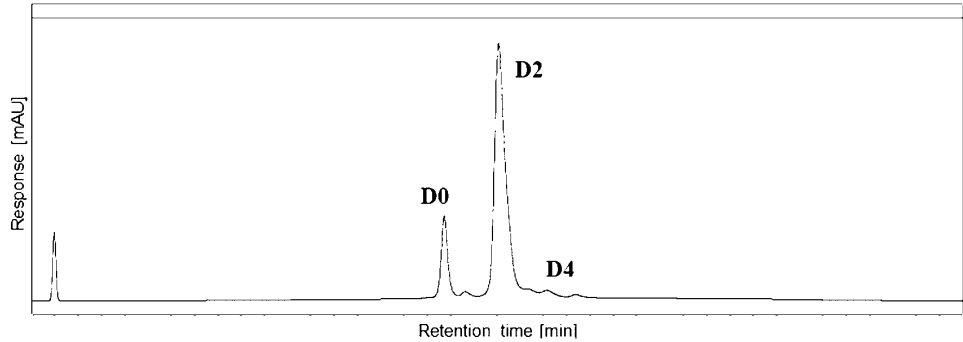
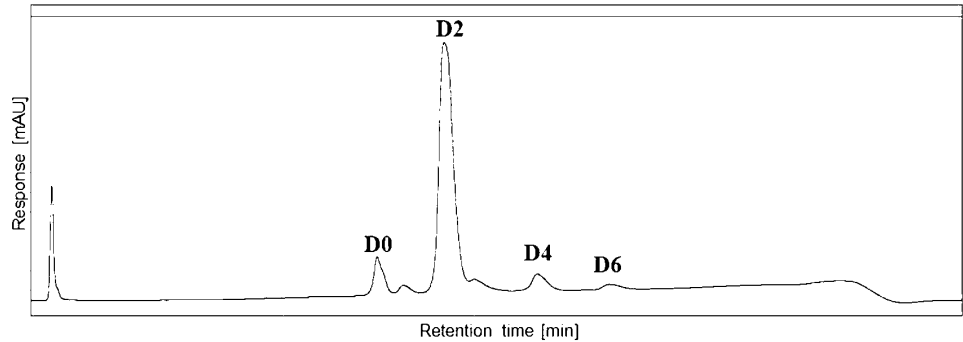
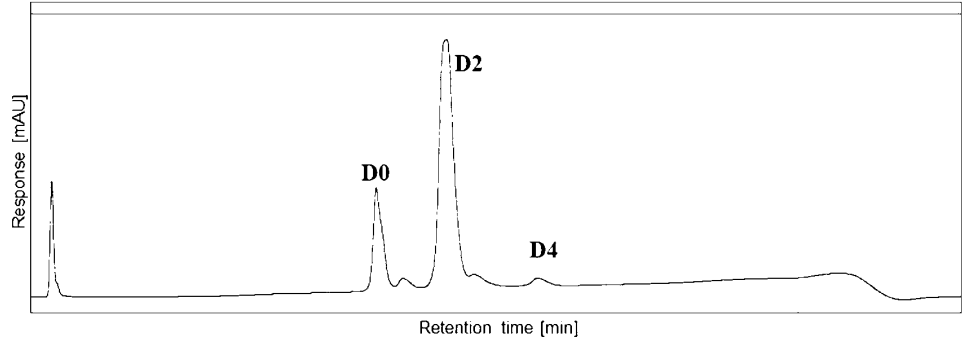


Fig. 8

A mAb1 4°C/19h



B mAb1 22°C/19h



C mAb1 37°C/2h

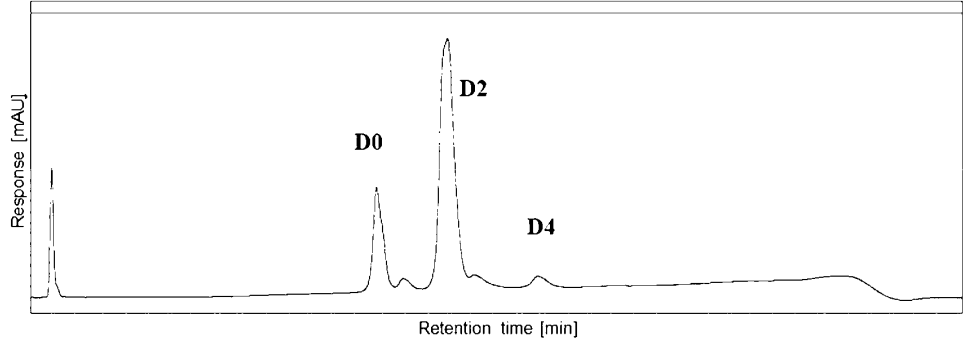
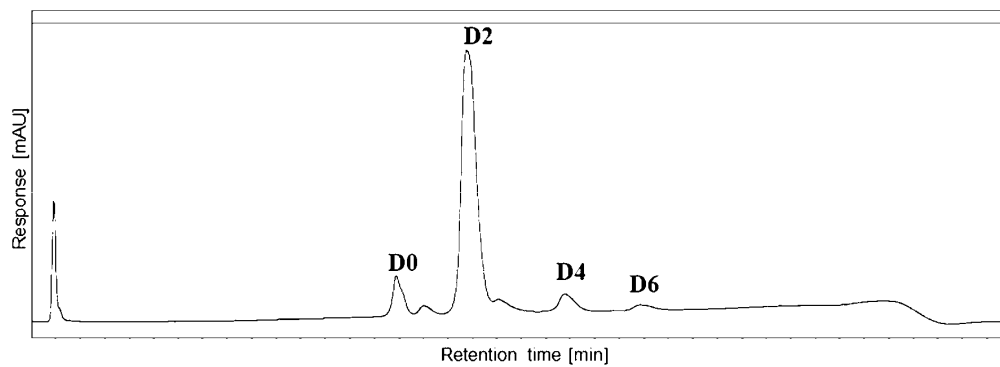
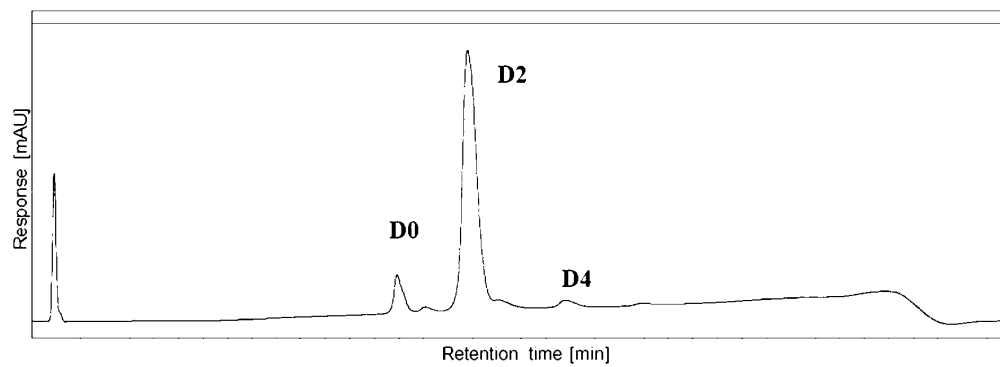
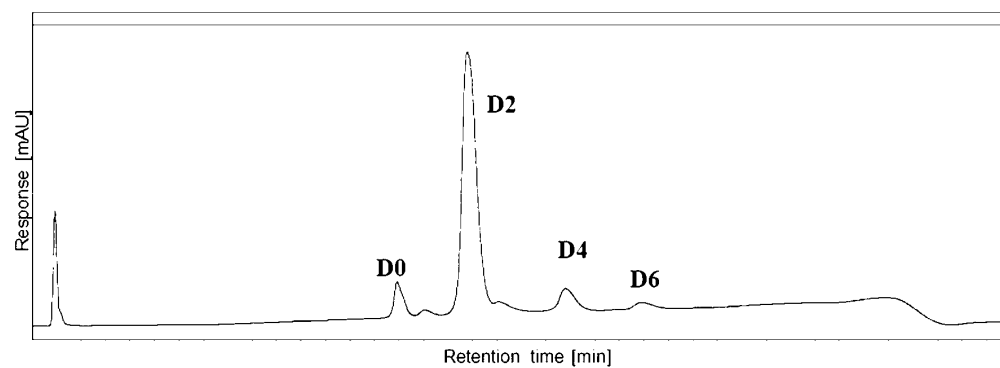
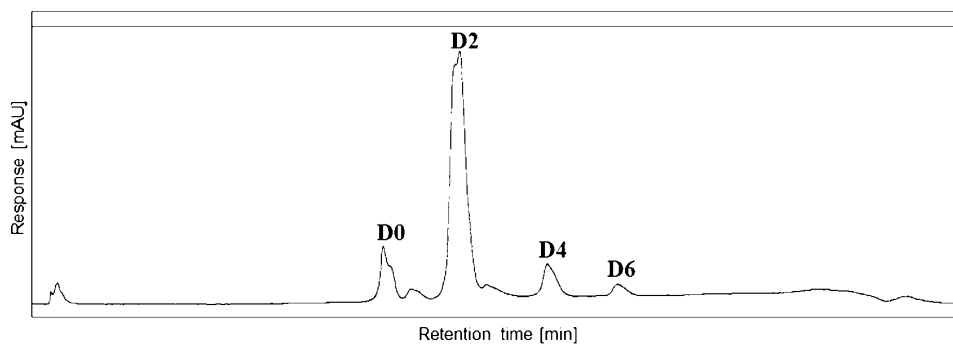
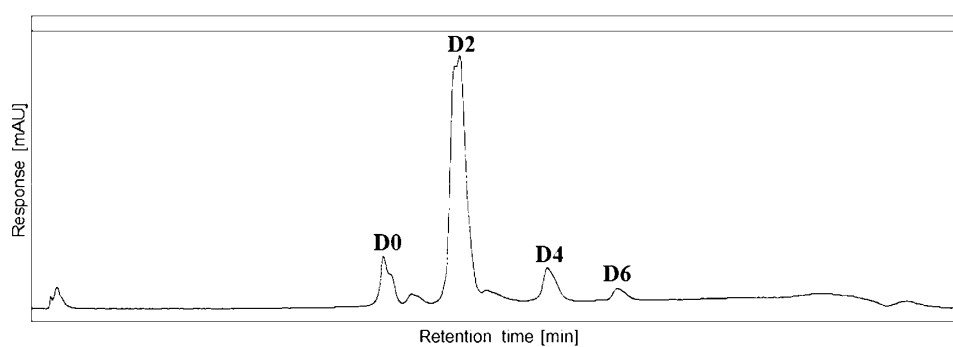
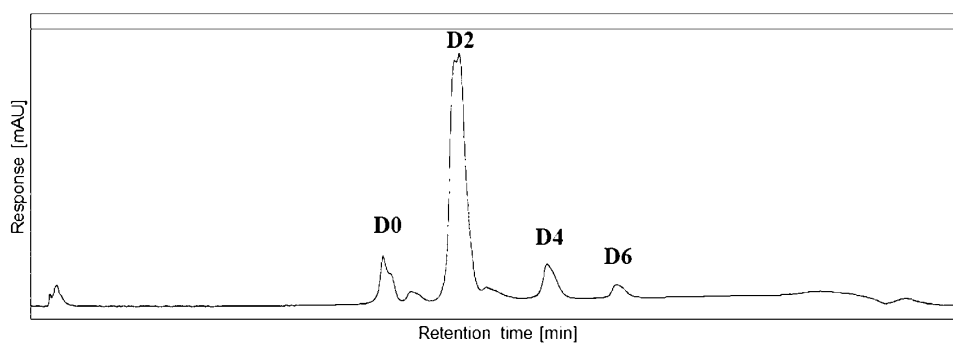
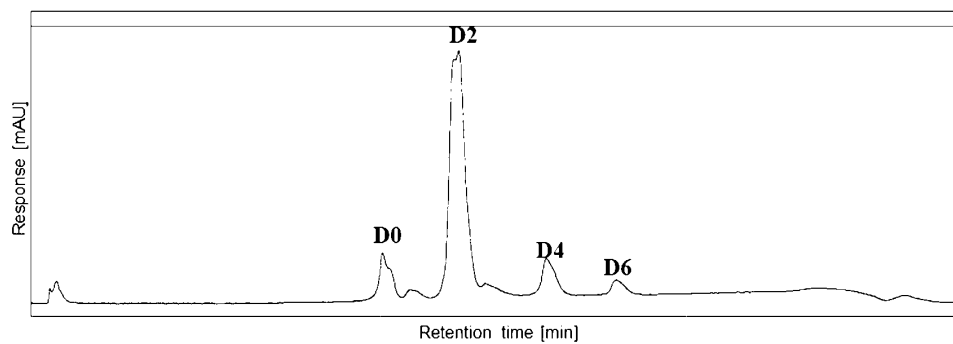
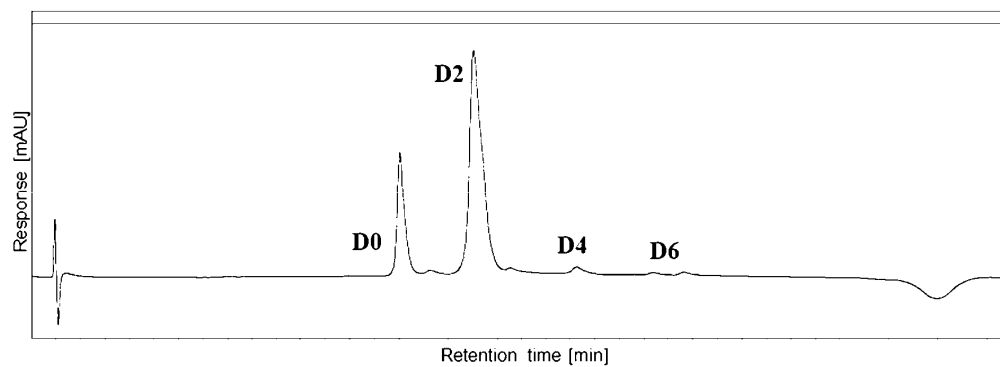
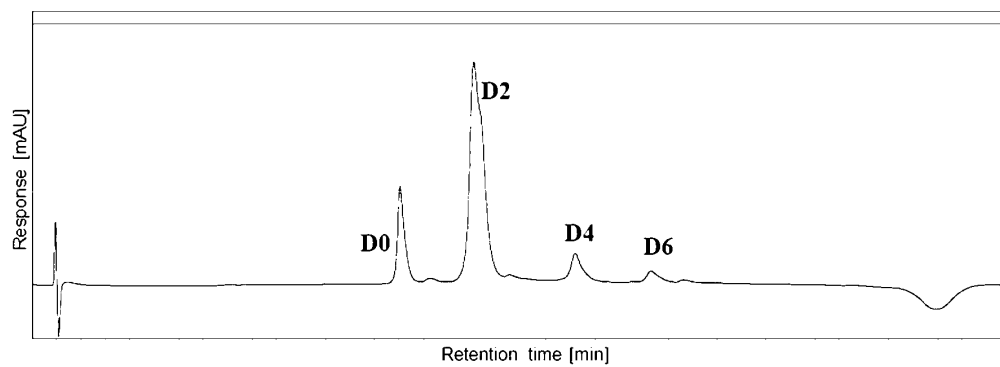
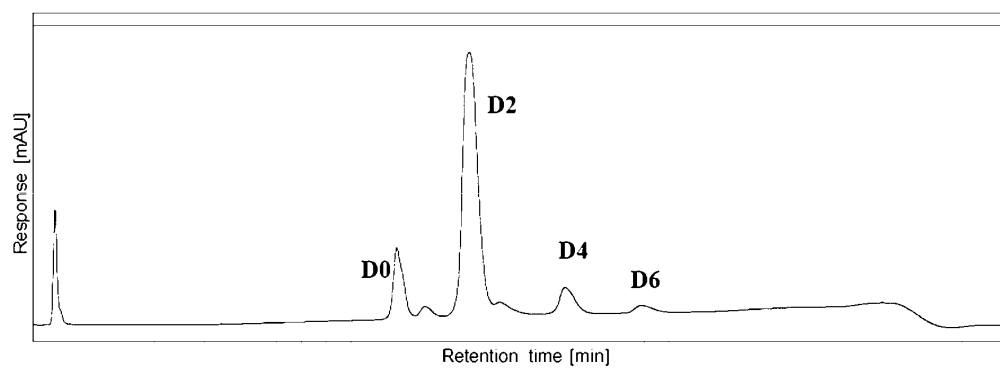


Fig. 9

D mAb1 4°C/19h**E** mAb1 4°C/45h**F** mAb1 4°C/92h**Fig. 9 (continued)**

A **mAb1 ZnSO₄·7H₂O****B** **mAb1 ZnBr₂·2H₂O****C** **mAb1 Zn(ClO₄)₂·6H₂O****D** **mAb1 Zn(OAc)₂·2H₂O****Fig. 10**

A mAb1 2eq Zn^{2+} **B** mAb1 8eq Zn^{2+} **C** mAb1 16eq Zn^{2+} **Fig. 11**

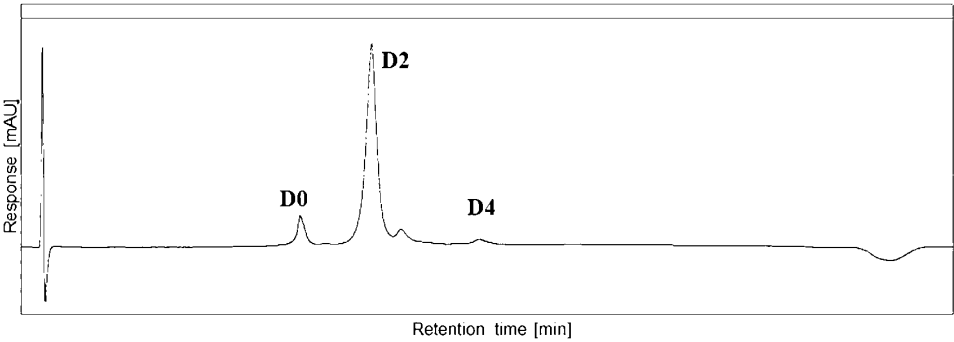
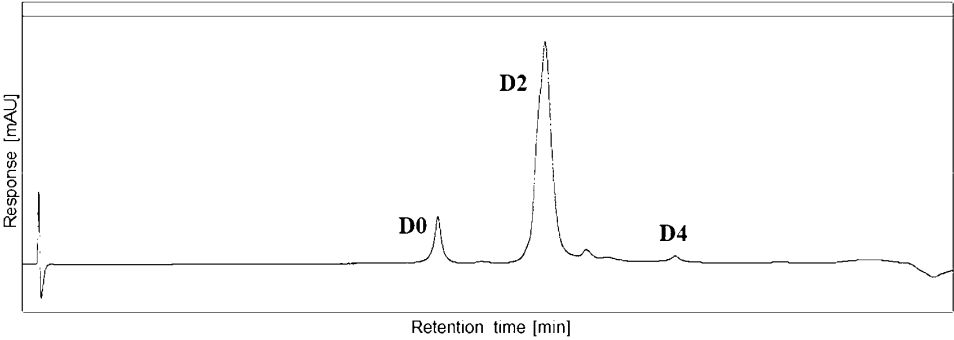
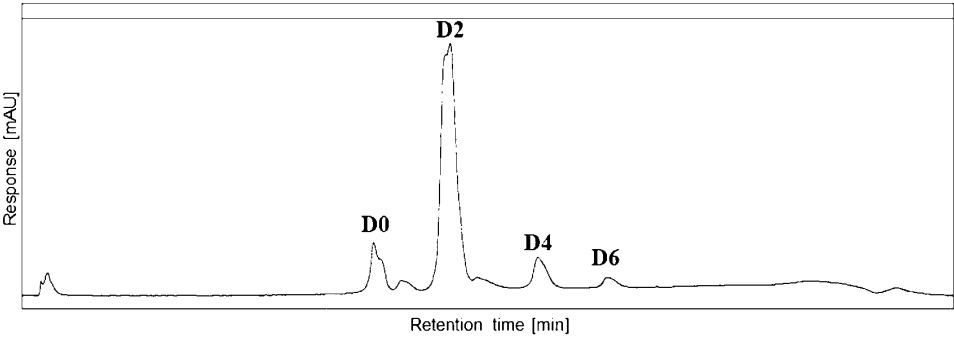


Fig. 12

A mAb1 12eq DHAA



B mAb1 2.2eq DTNB



C mAb1 1.82eq DDD

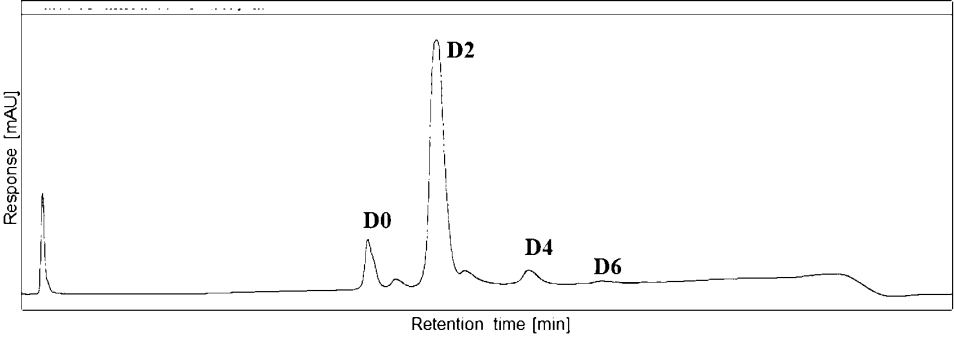
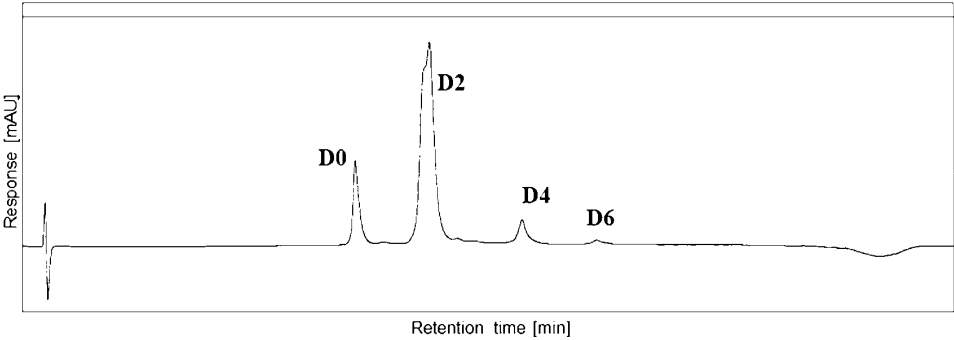
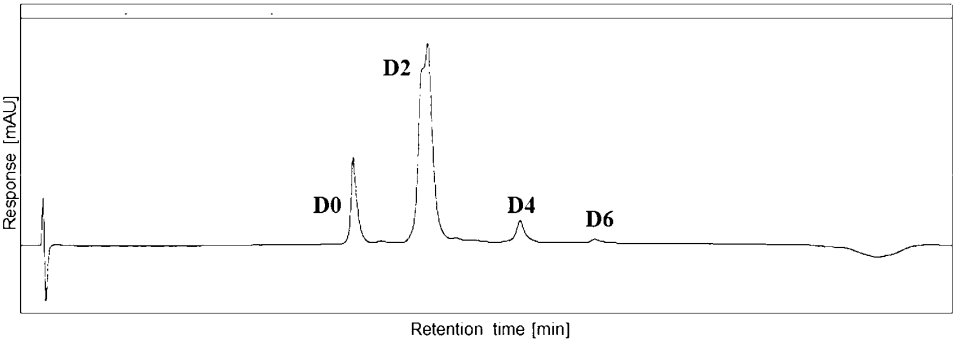


Fig. 13

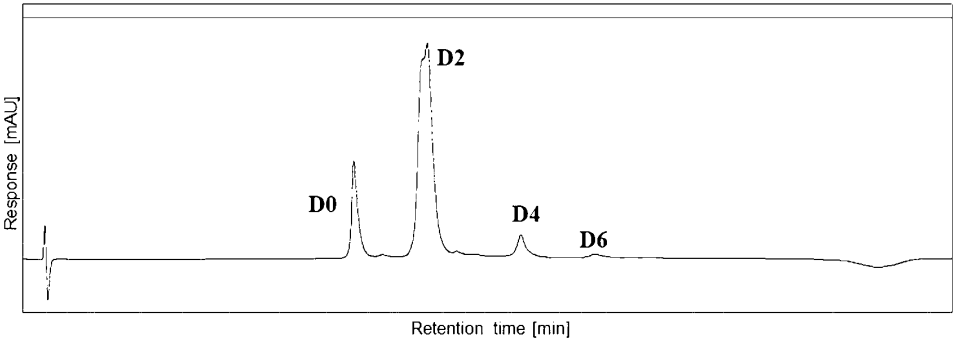
A mAb1 oxidation 0°C



B mAb1 oxidation 12°C



C mAb1 oxidation 22°C



D mAb1 oxidation 37°C

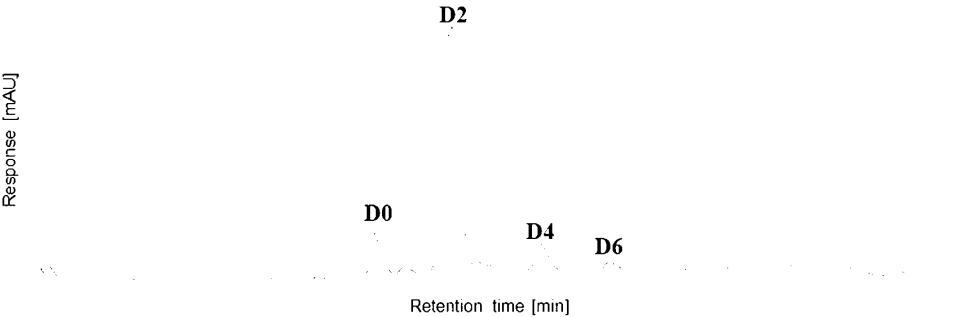
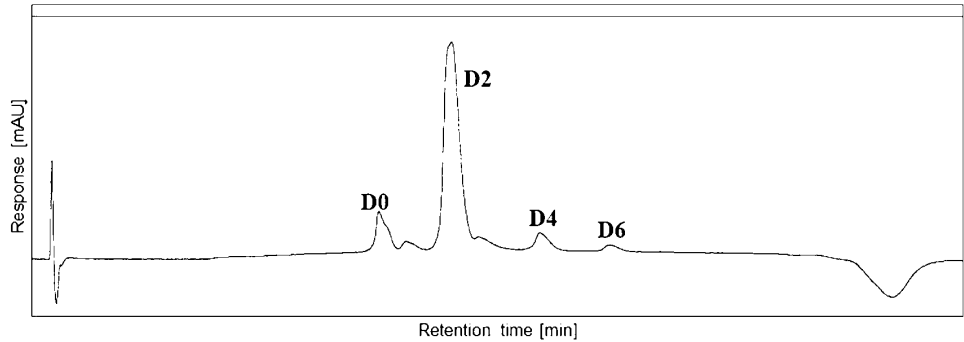
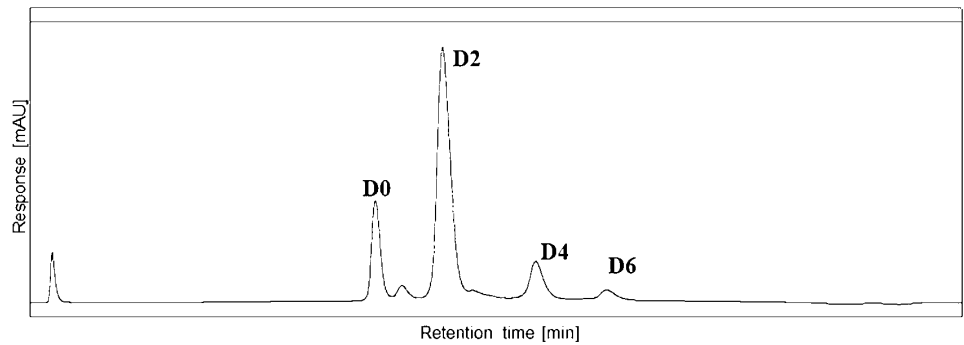


Fig. 14

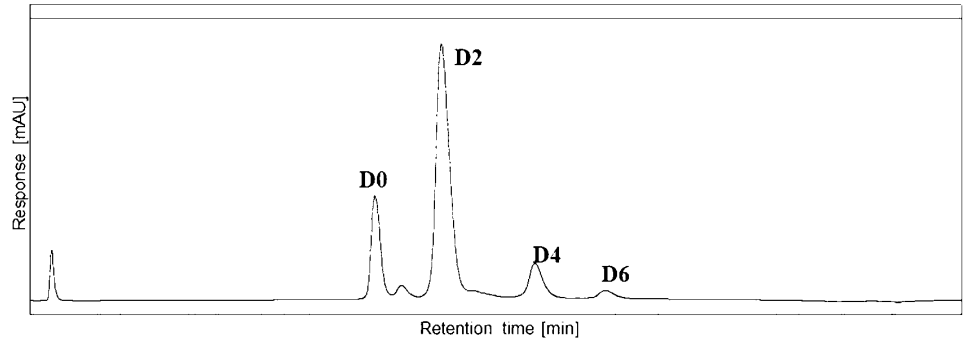
E mAb1 re-oxidation at 12 °C for 0.5h



F mAb1 re-oxidation at 12 °C for 2h



G mAb1 re-oxidation at 12 °C for 4h



H mAb1 re-oxidation at 12 °C for 24h

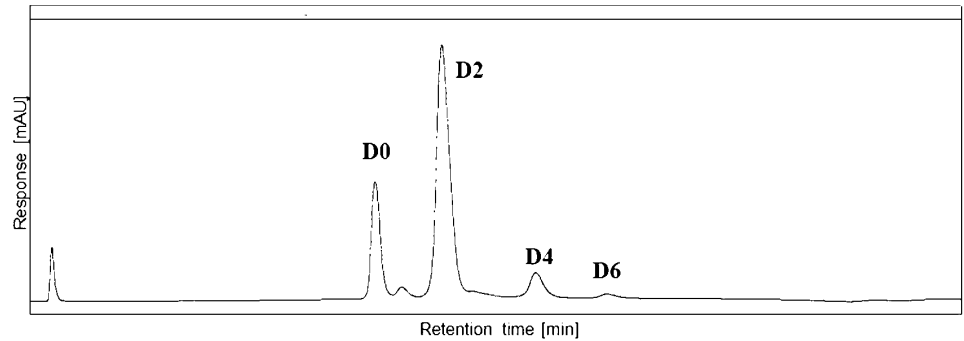
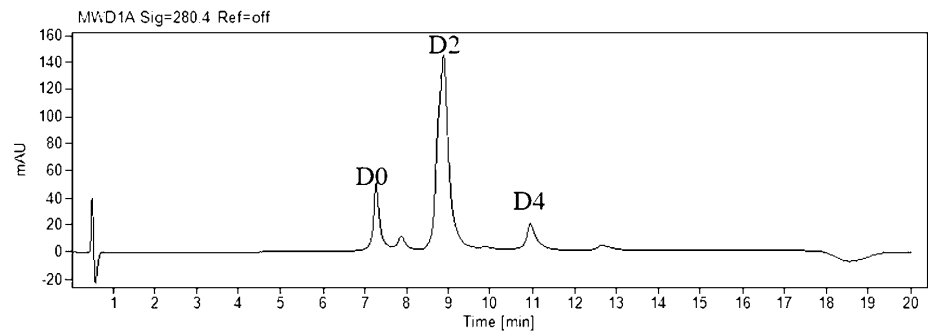


Fig. 14 (continued)

A **mAb1 conjugation at 0°C**



B **mAb1 conjugation at 12°C**

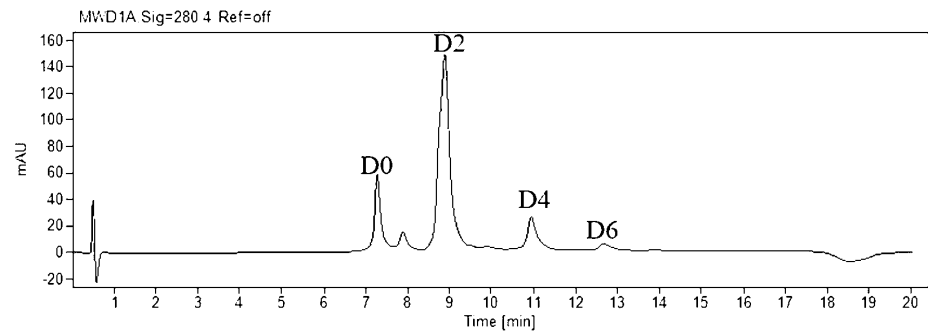


Fig. 15

mAb1 re-oxidation at 22°C for 47.5h

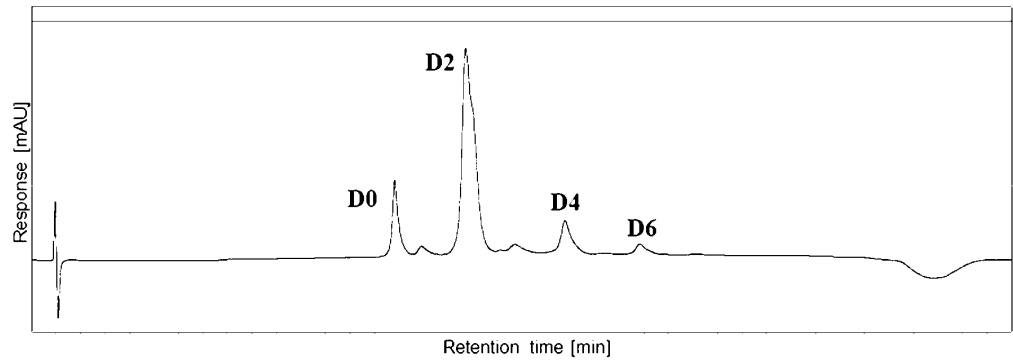
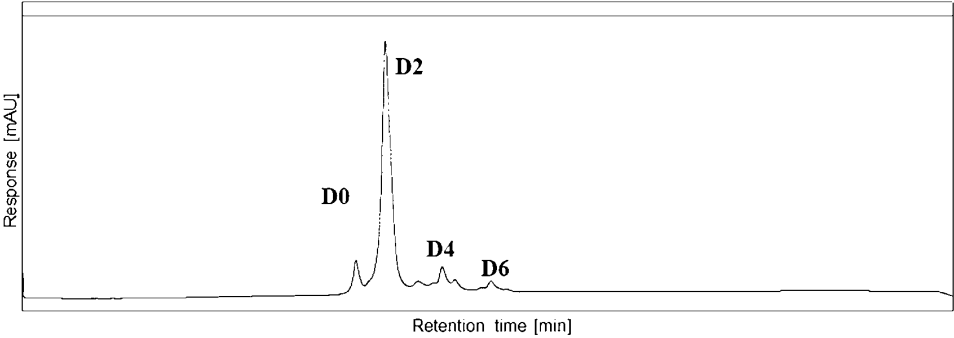
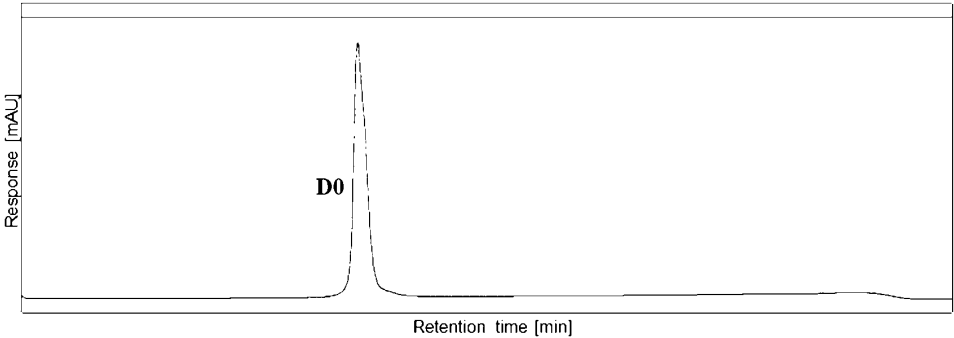


Fig. 16

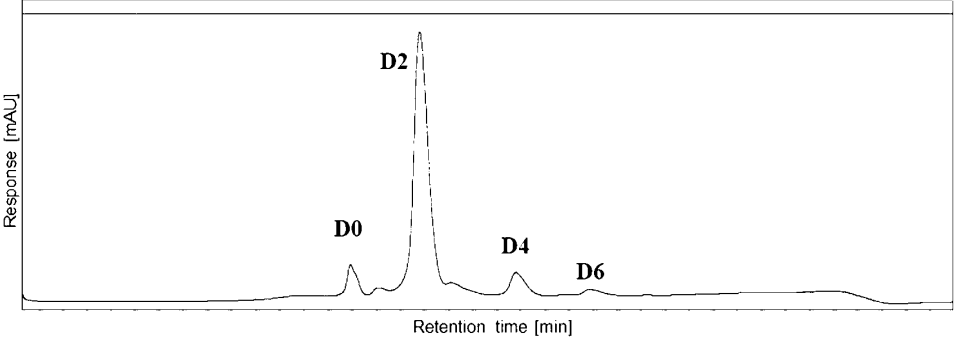
A mAb1 re-oxidation PB/4Zn²⁺ 170h/12°C



B mAb1 re-oxidation PB/0Zn²⁺ 24h/12°C



C mAb1 re-oxidation HEPES+PB/4Zn²⁺ 170h/12°C



D mAb1 re-oxidation HEPES/0Zn²⁺ 24h/12°C

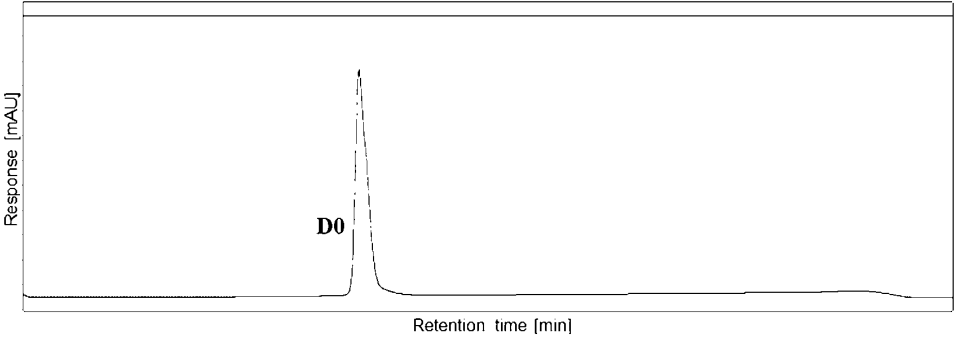
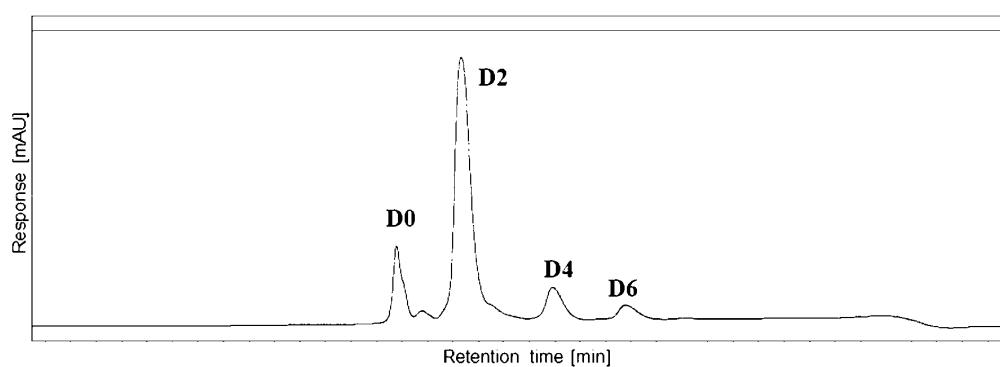
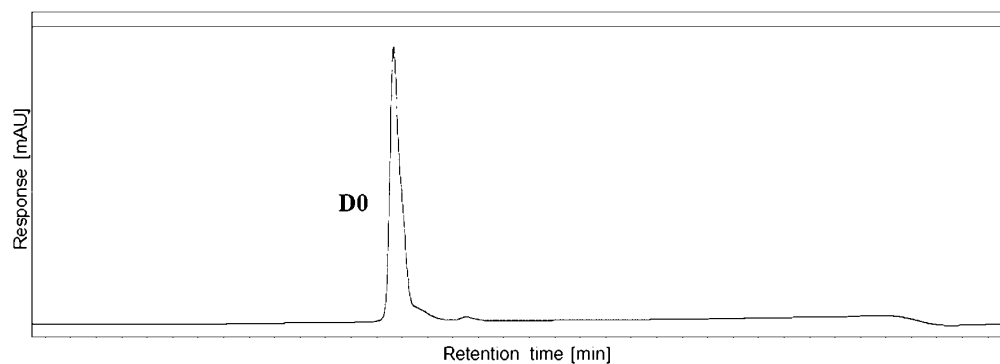
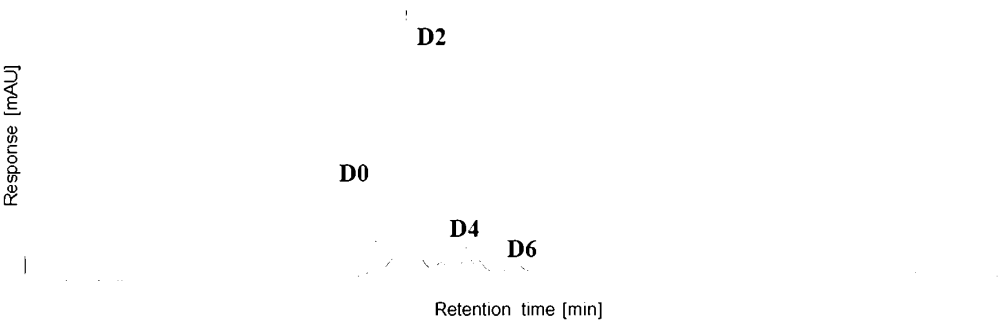


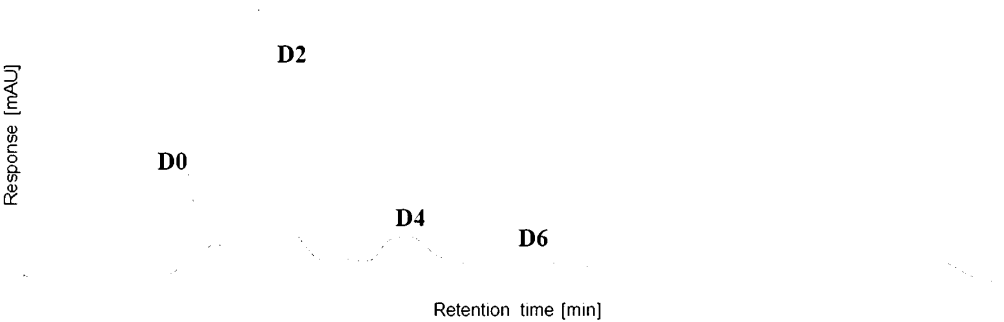
Fig. 17

A mAb3 re-oxidation PB/4Zn²⁺ 170h/12°C**B** mAb1 re-oxidation PB/0Zn²⁺ 24h/12°C**Fig. 18**

A mAb1 GGFG-Dxd PB/4Zn²⁺ 170H/12°C



B mAb1 PBD PB/4Zn²⁺ 170H/12°C



C mAb1 MC-VC-MMAE HEPES+PB/4Zn²⁺ 170H/12°C

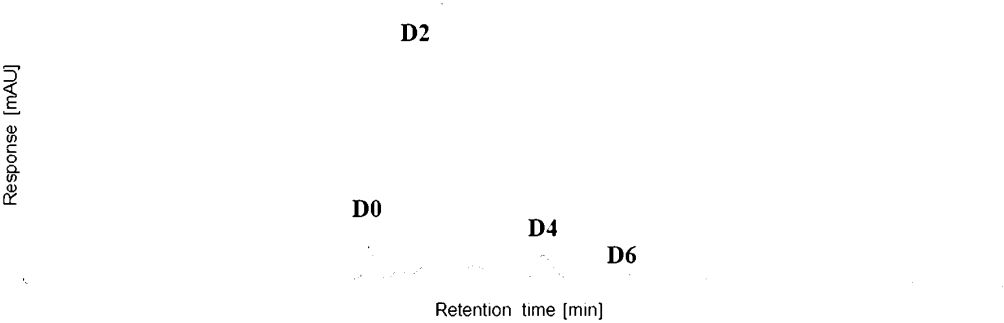
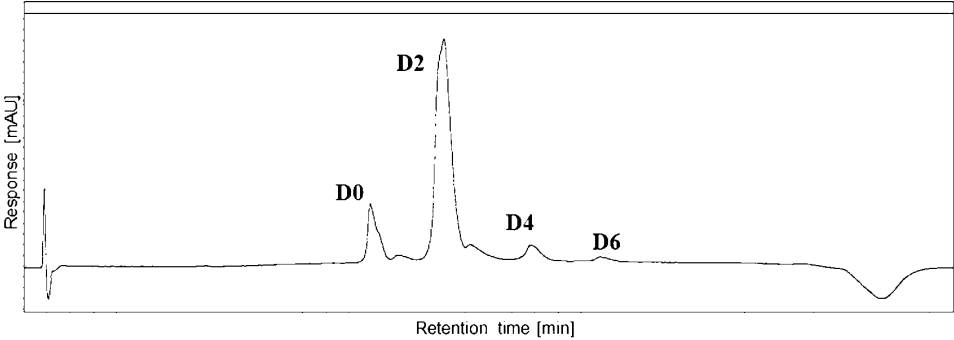


Fig. 19

A mAb1 5mg/ml



B mAb1 10mg/ml

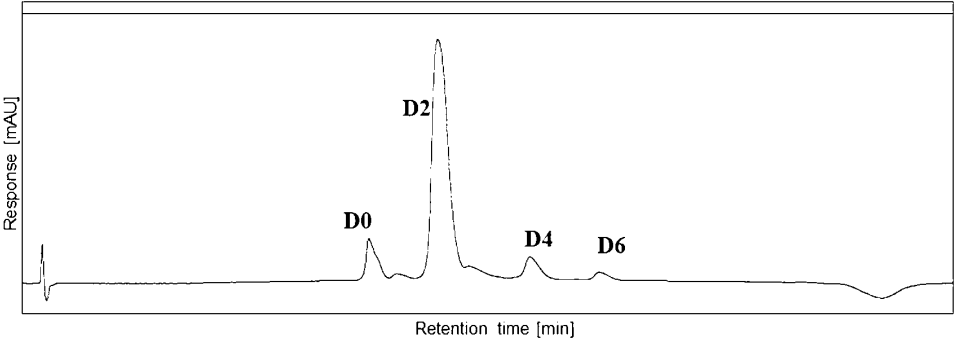
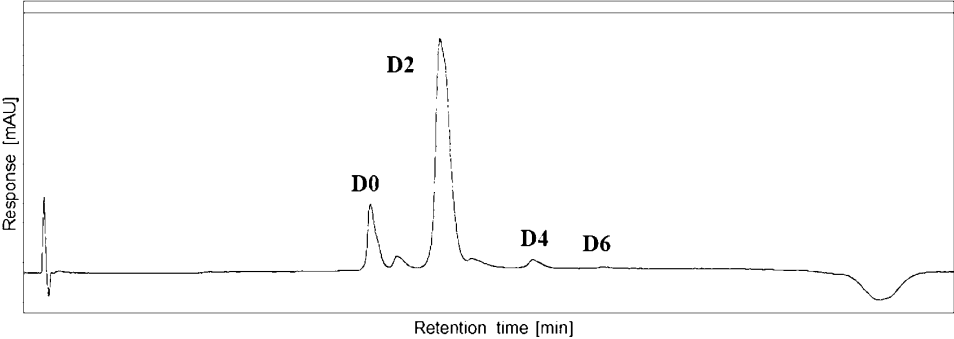


Fig. 20

A mAb1 40mM HEPES



B mAb1 20mM HEPES

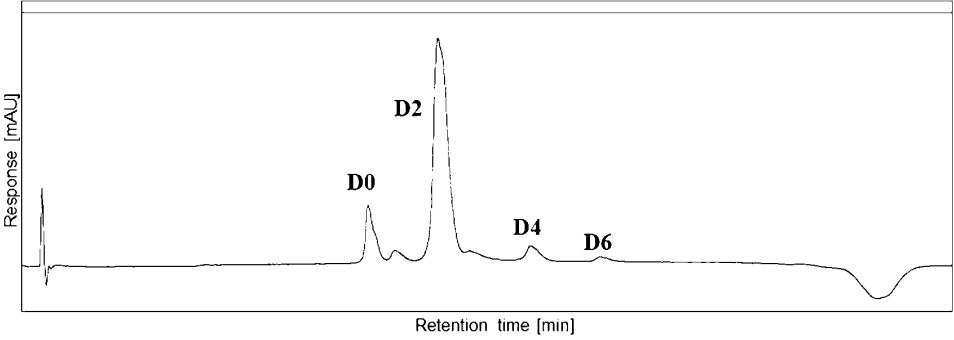


Fig. 21

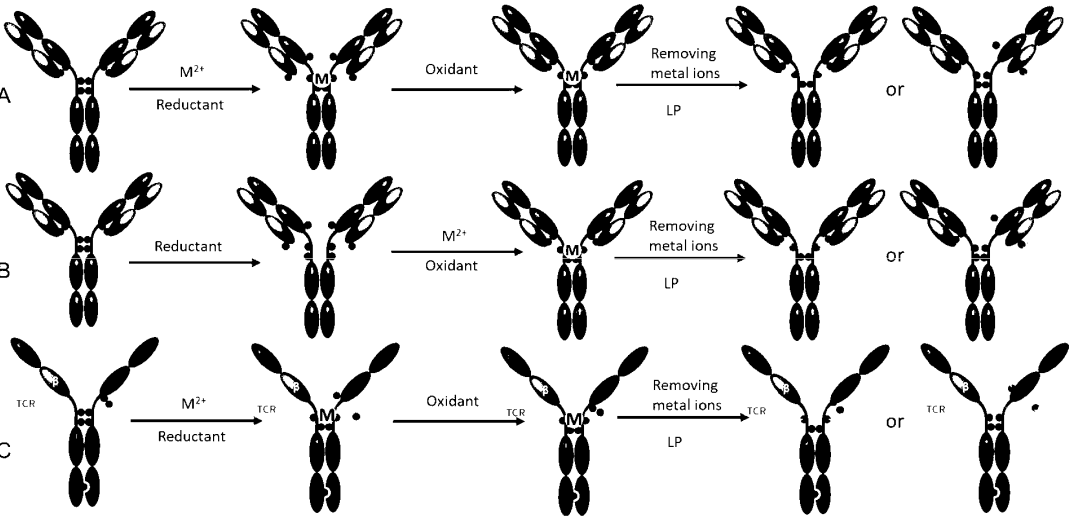


Fig. 22