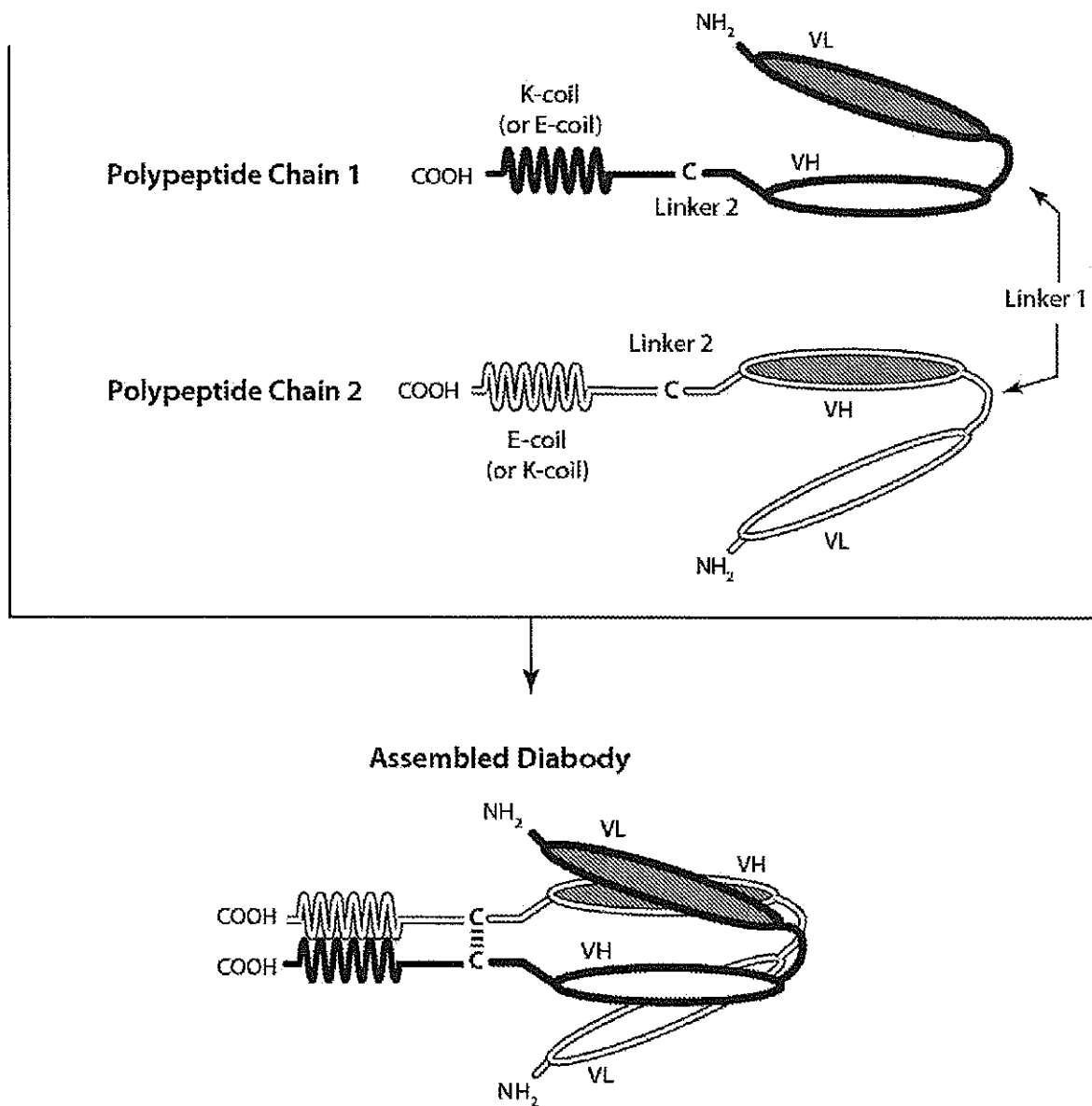
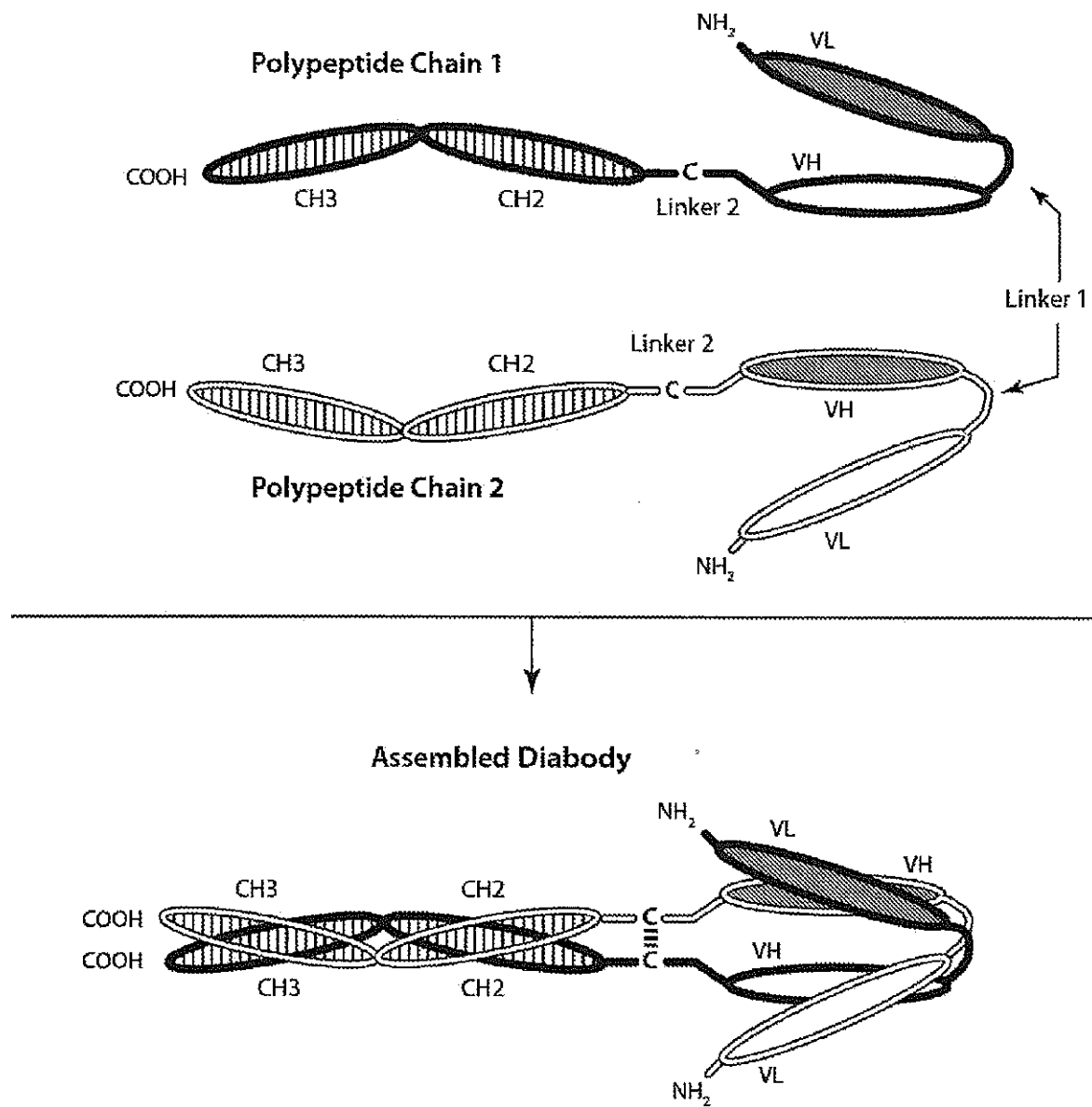


**Figure 1**

**Figure 2**

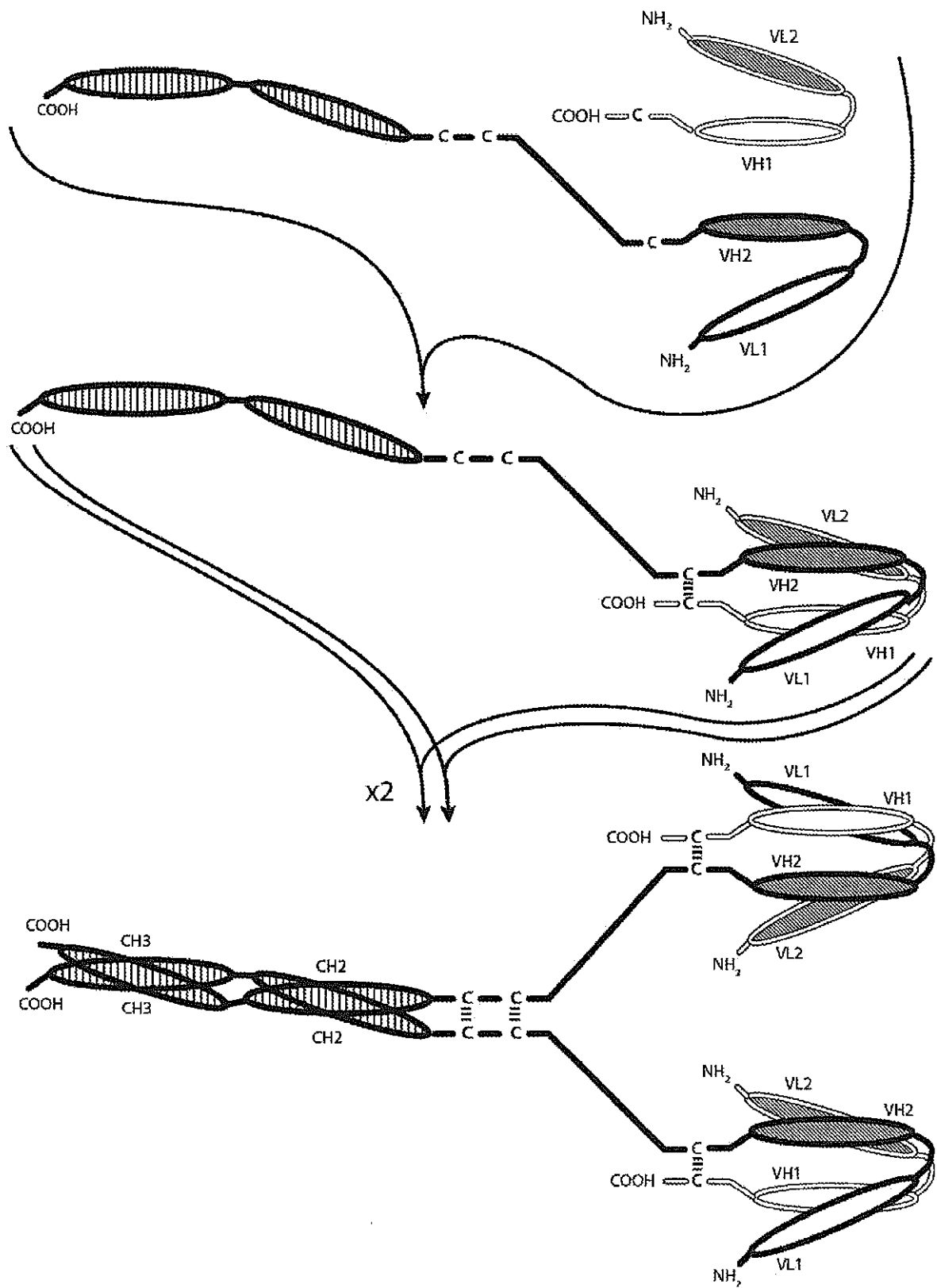
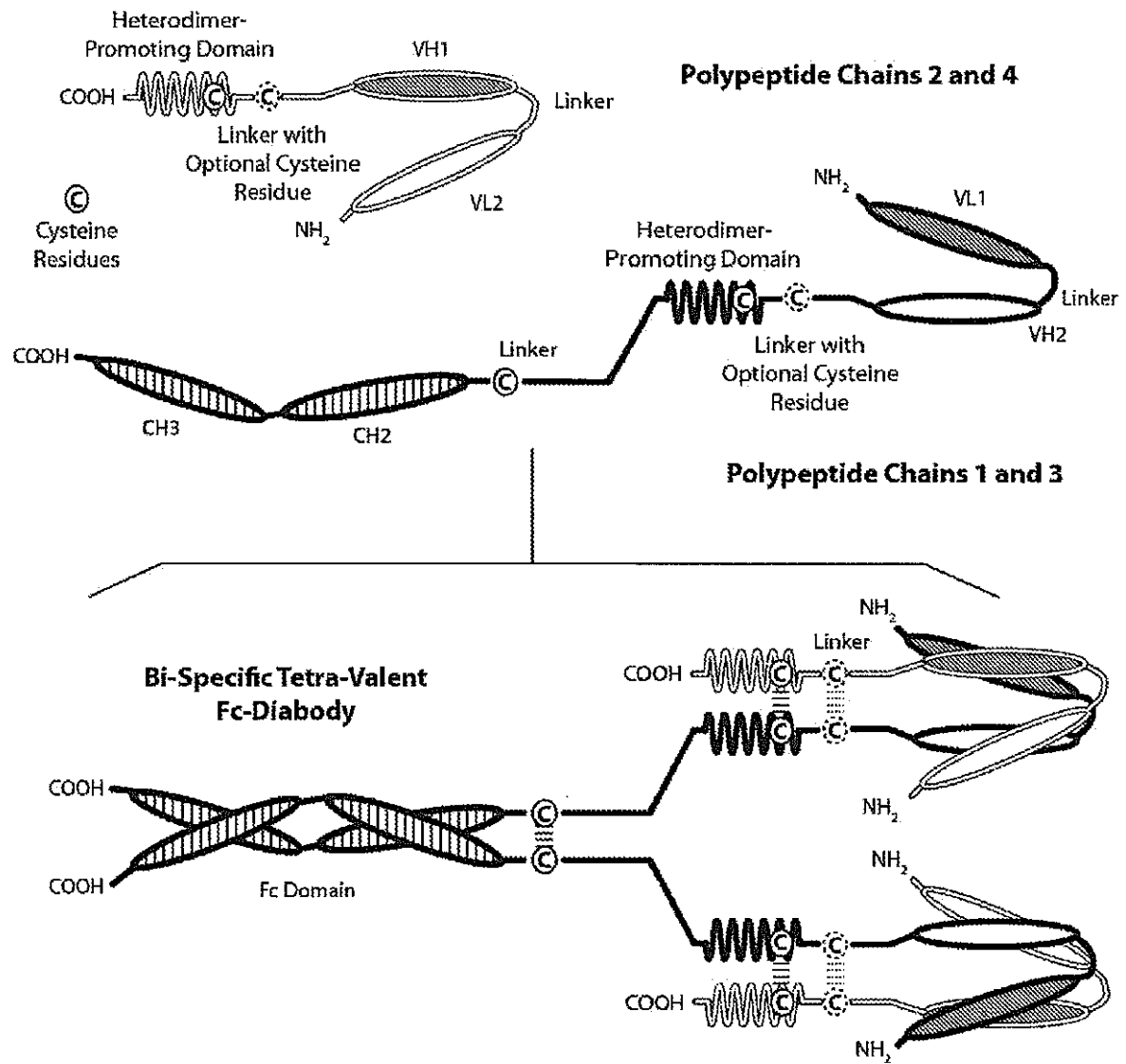
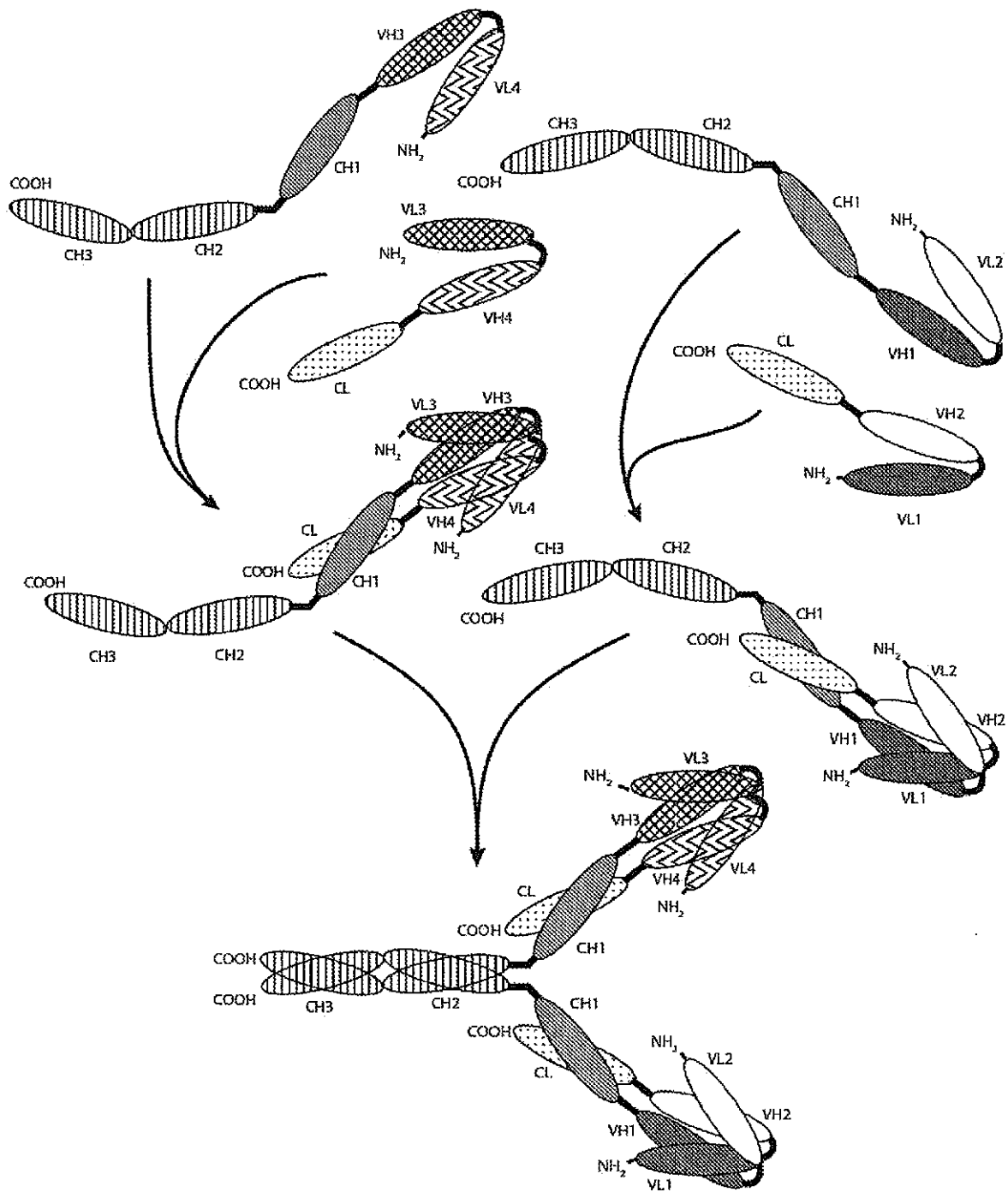
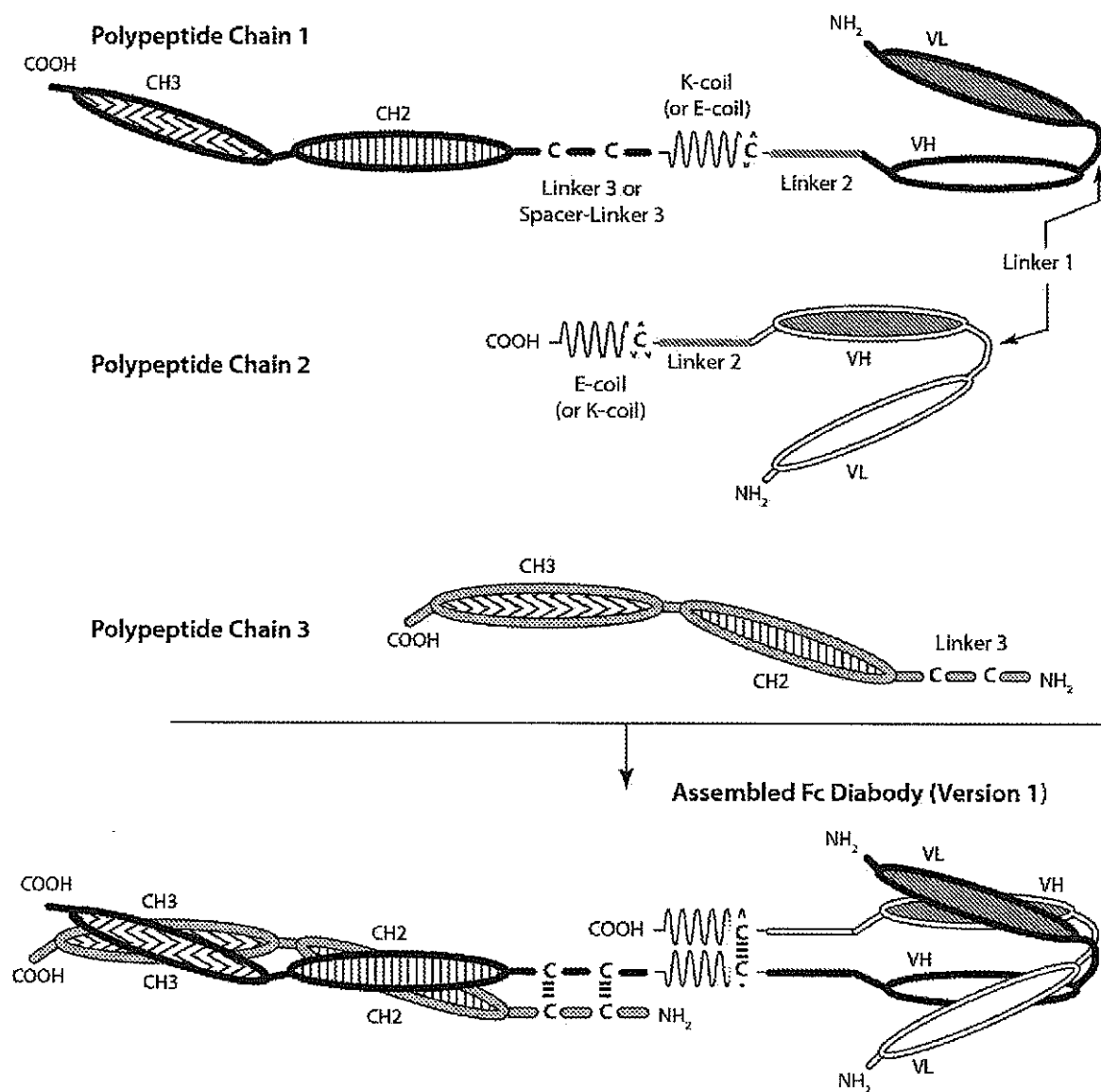
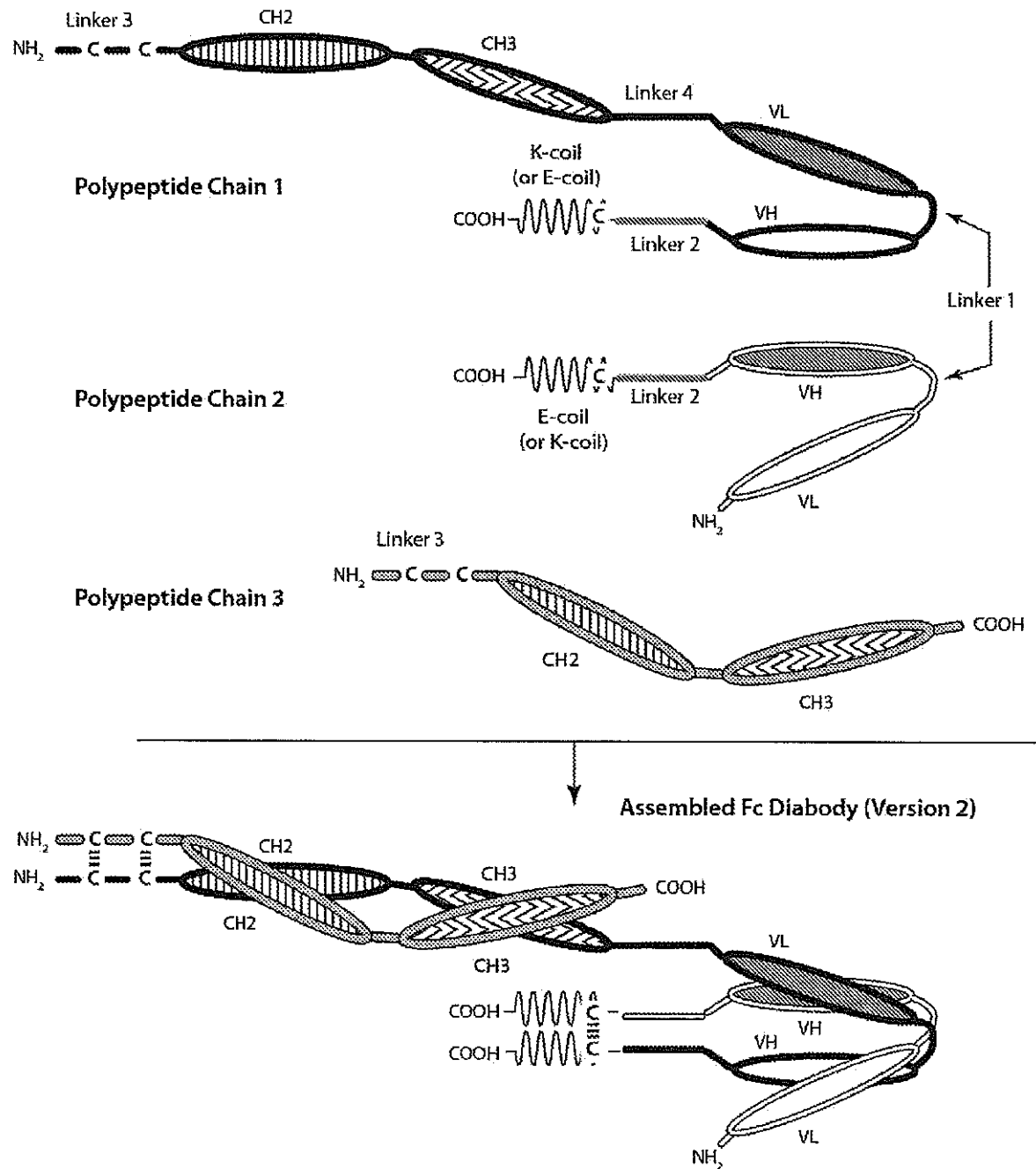


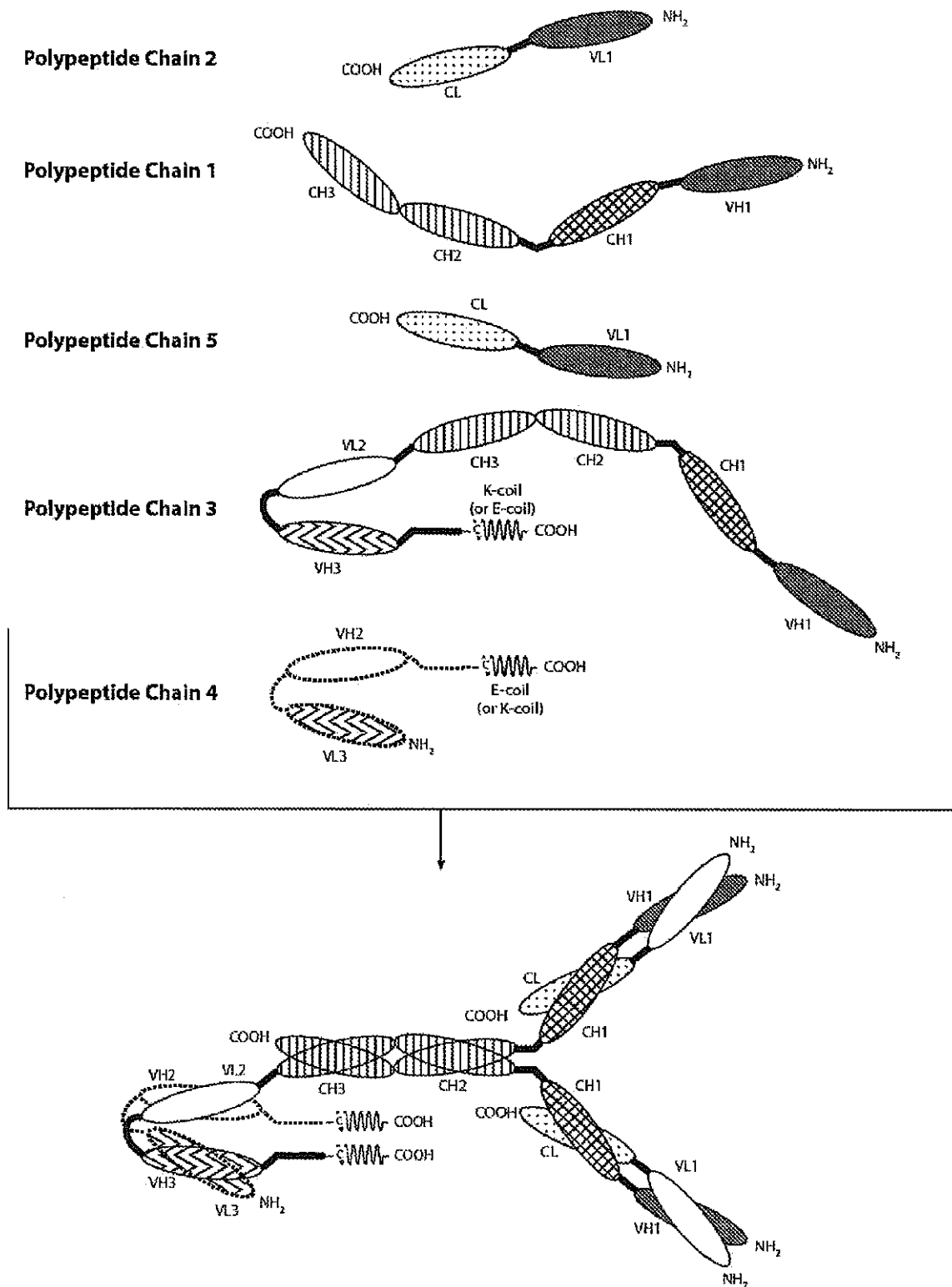
Figure 3A

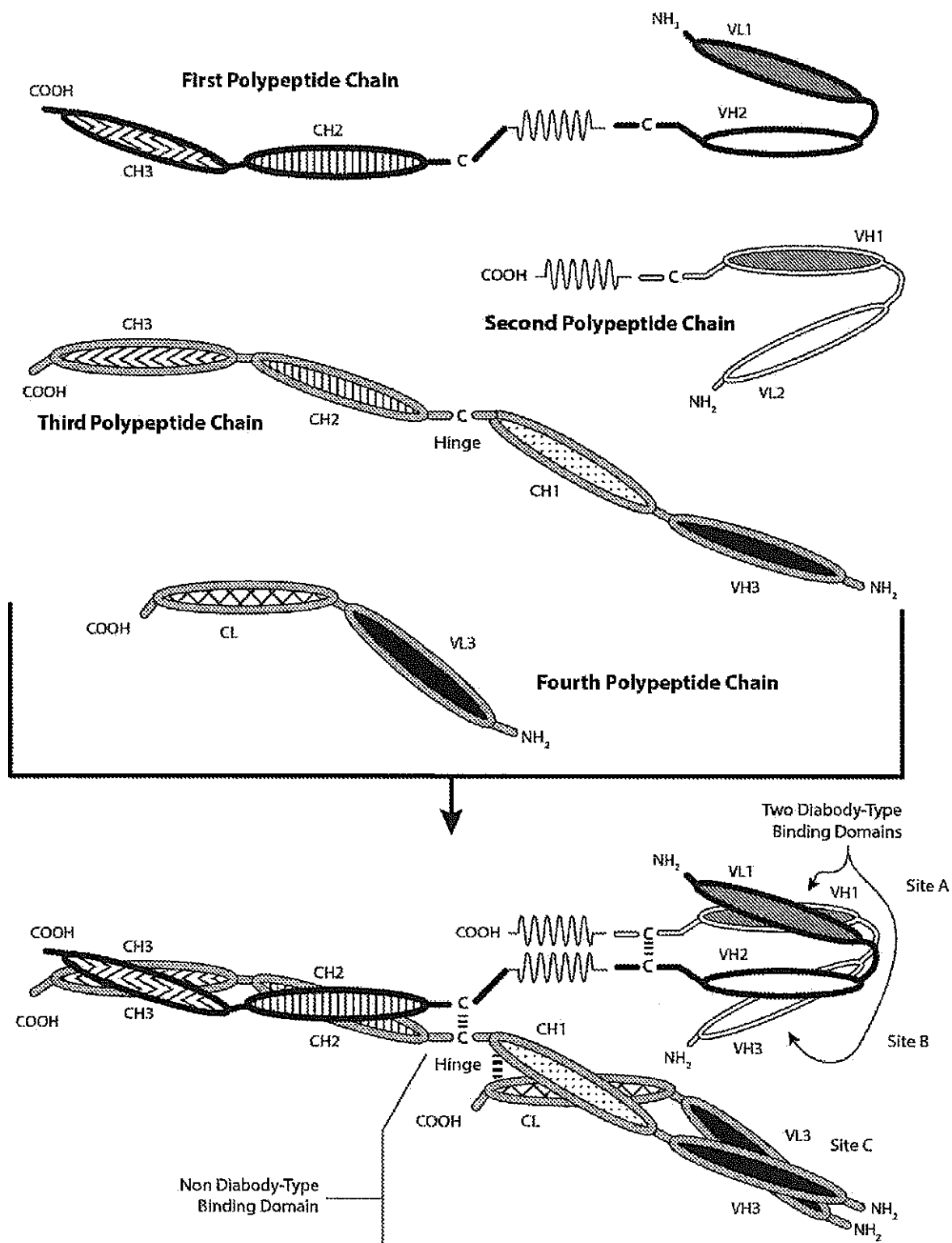
**Figure 3B**

**Figure 3C**

**Figure 4A**

**Figure 4B**

**Figure 5**

**Figure 6A**

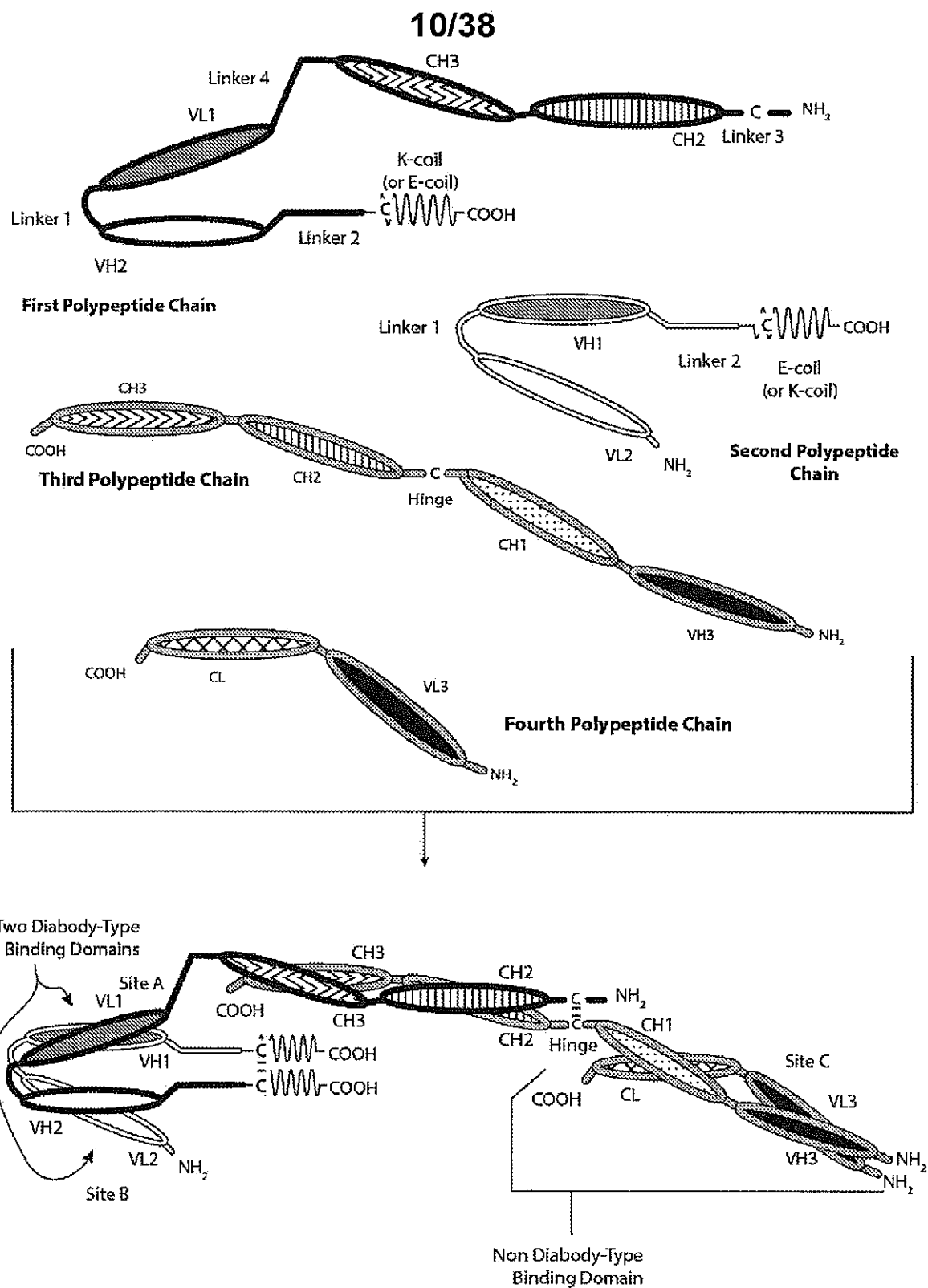
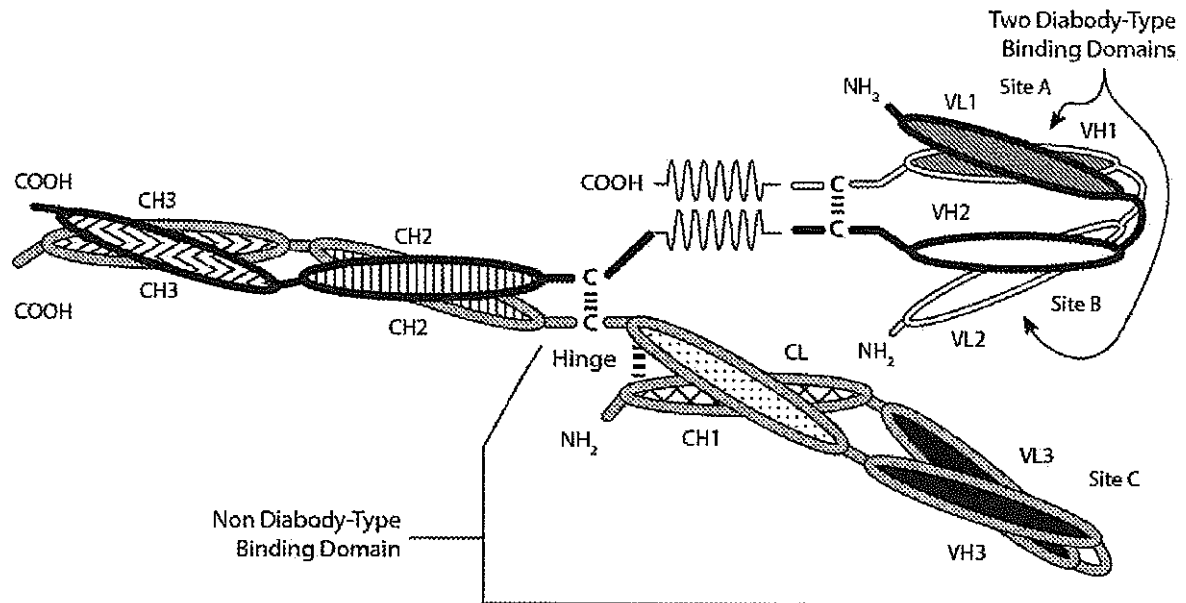
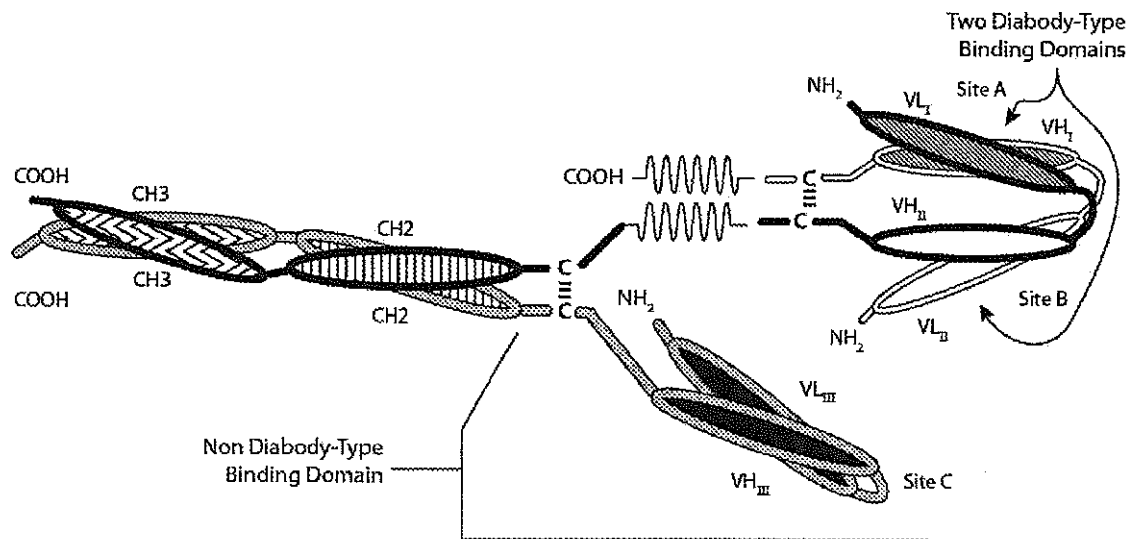


Figure 6B

**Figure 6C****Figure 6D**

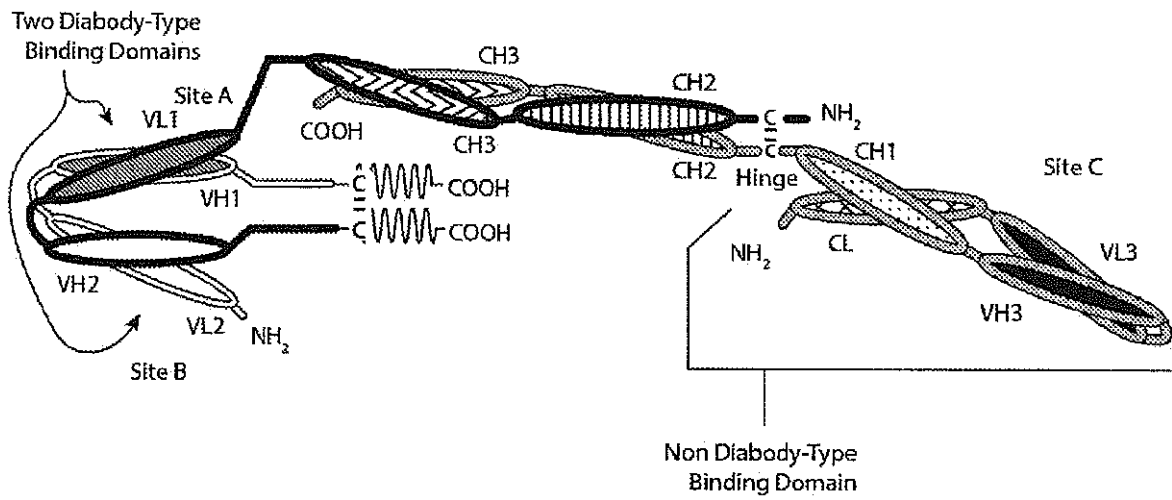


Figure 6E

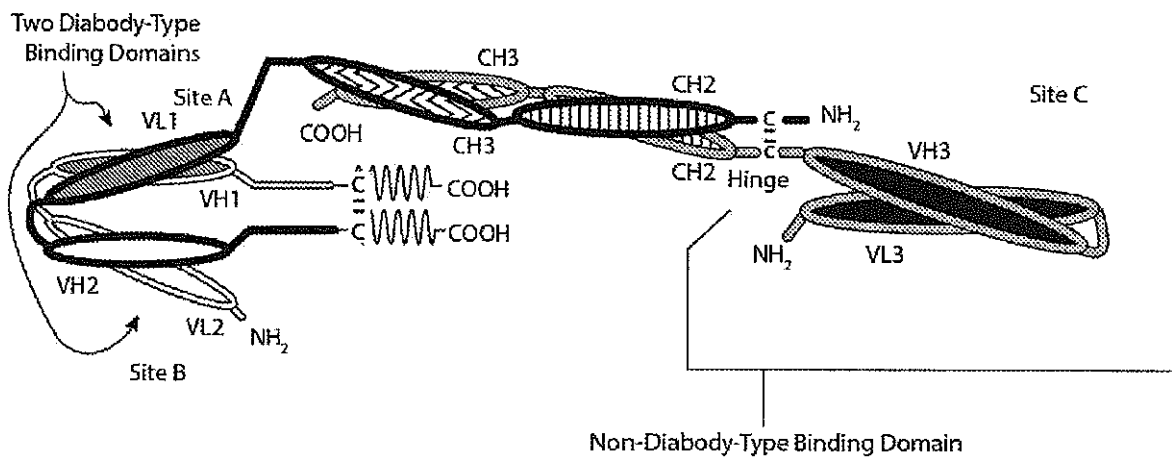


Figure 6F

shPD-1 His (1ug/ml) coated and G anti M H+L HRP detected

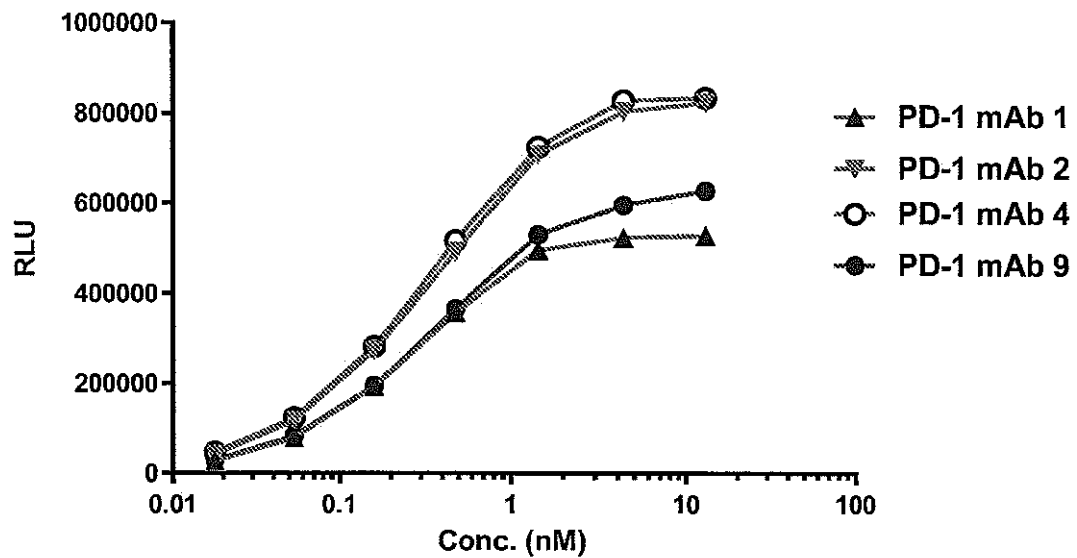


Figure 7A

shPD-1 His (0.5ug/ml) coated and G anti M H+L HRP detected

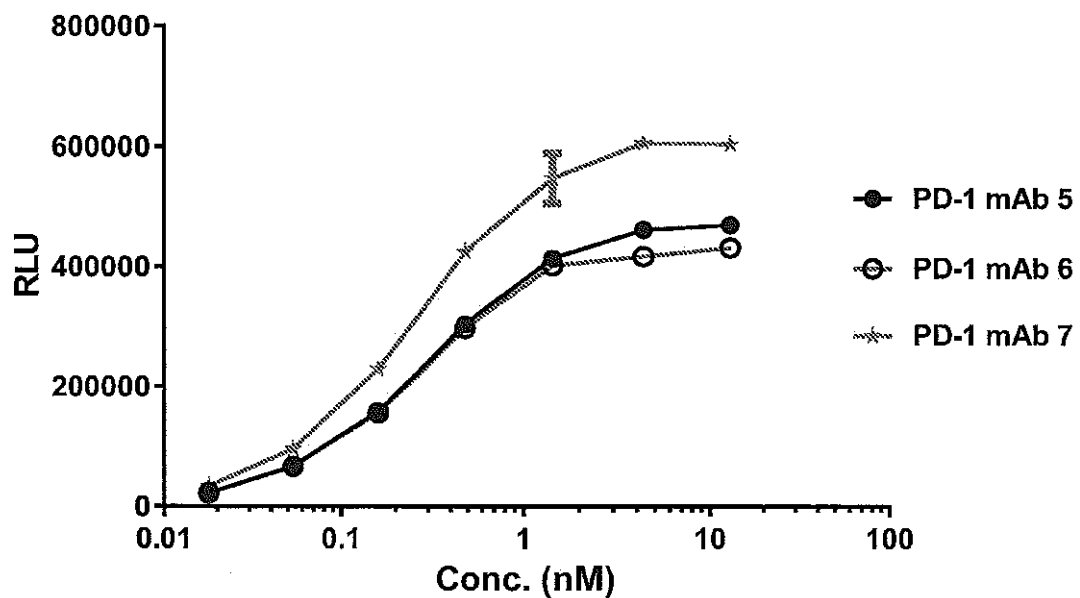


Figure 7B

shPD-1 His(0.5ug/ml) coated and G anti mIgG (H+L) detected

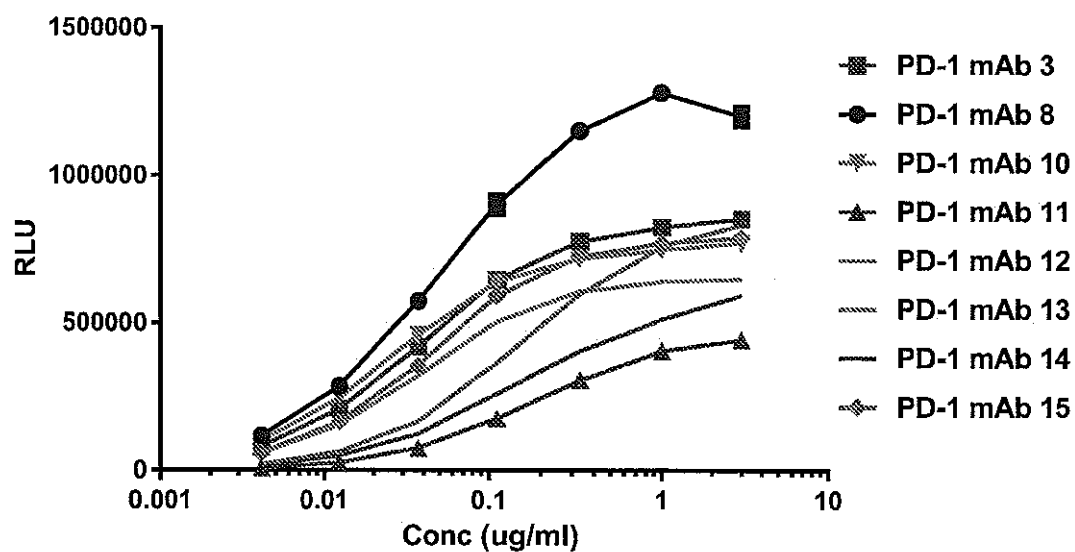


Figure 7C

shPD-1 hFc (0.5ug/ml) coated and G anti mIgG (H+L) detected

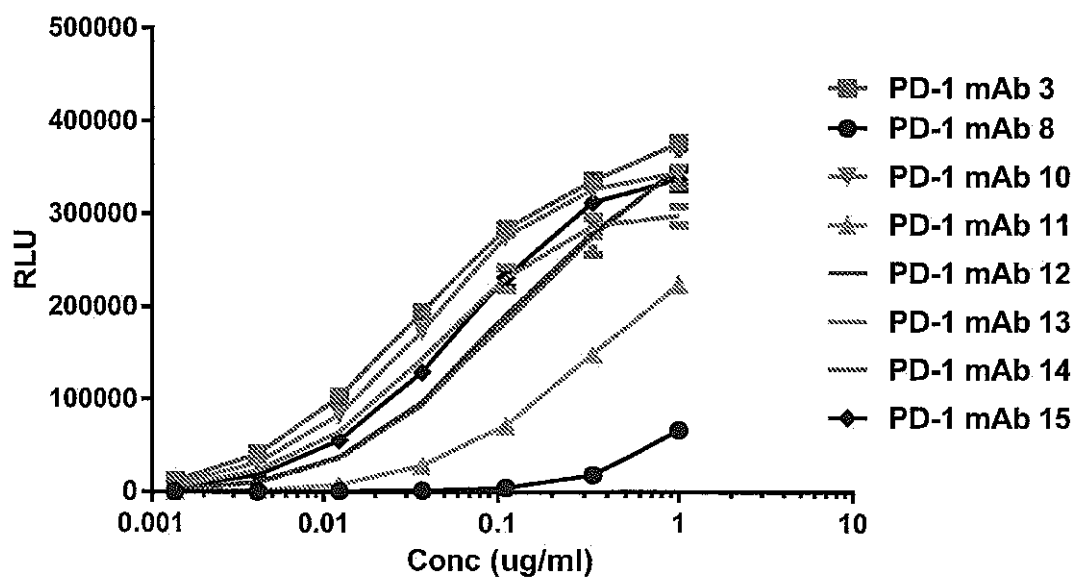


Figure 7D

scyno-PD-1-TEV-Fc (0.5ug/ml) coated and G anti M H+L HRP detected

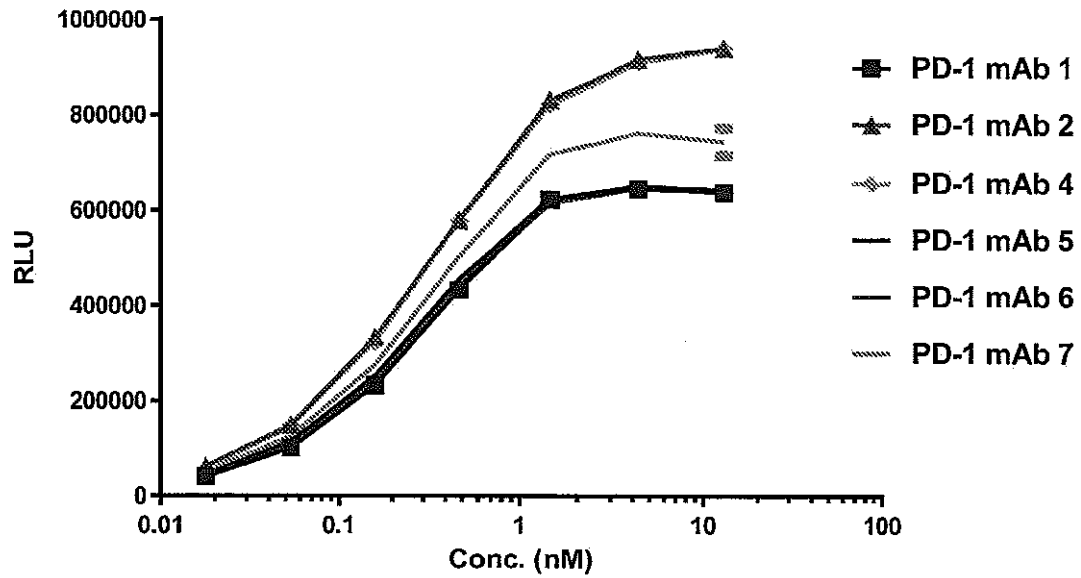


Figure 8A

scyno-PD-1-TEV-hFc(1ug/ml) coated and G anti M (H+L) detected

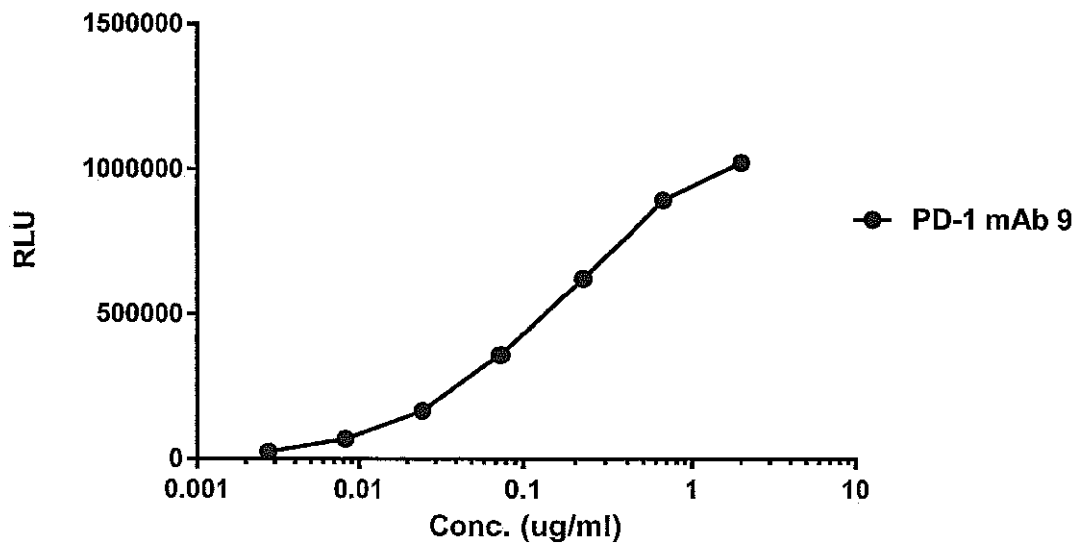


Figure 8B

scyno-PD-1-TEV-Fc (1ug/ml) coated and G anti mlgG (H+L) detected

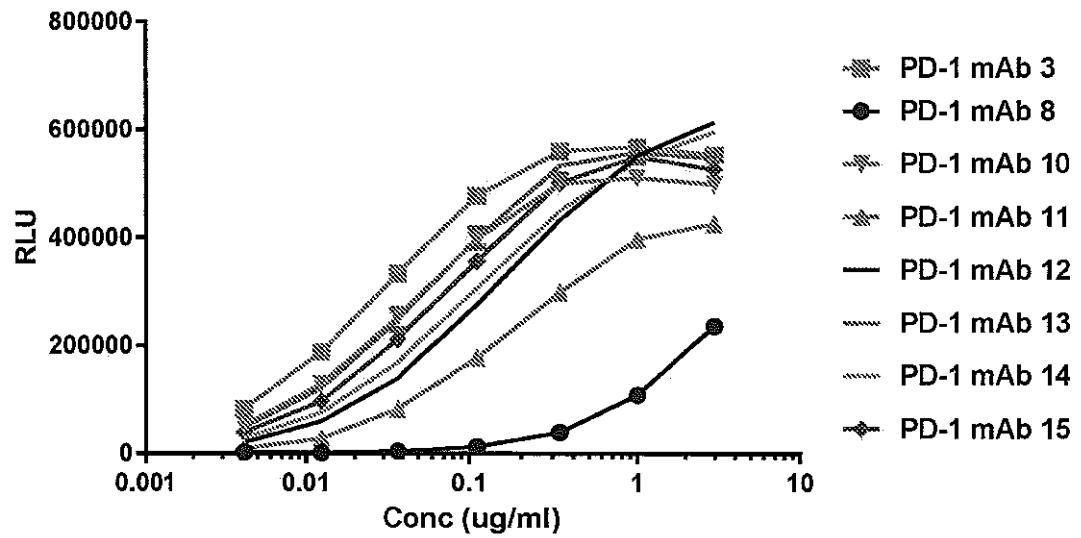


Figure 8C

PD-L1 Fc-biotin (1ug/ml) captured and shPD-1 His detected

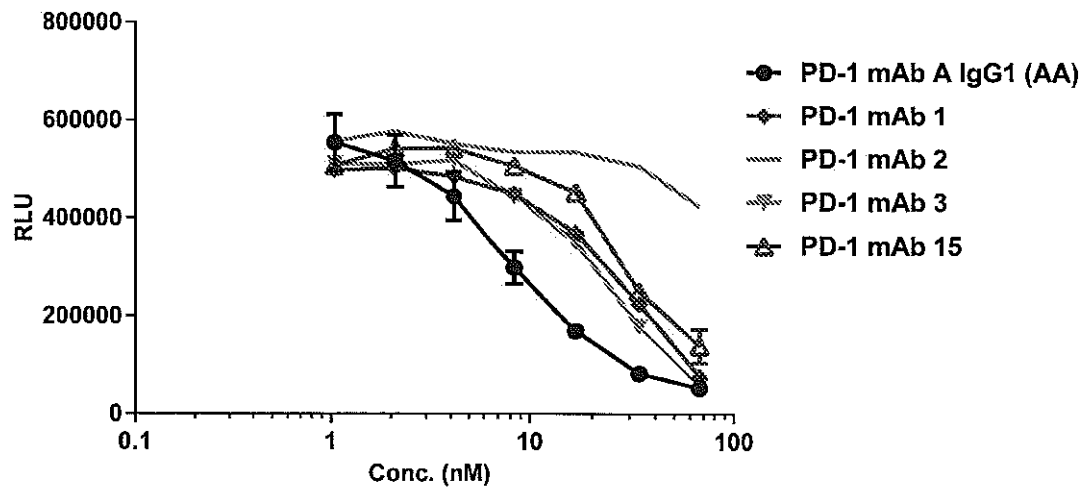


Figure 9A

PD-L1 Fc-biotin (1ug/ml) captured and shPD-1 His detected

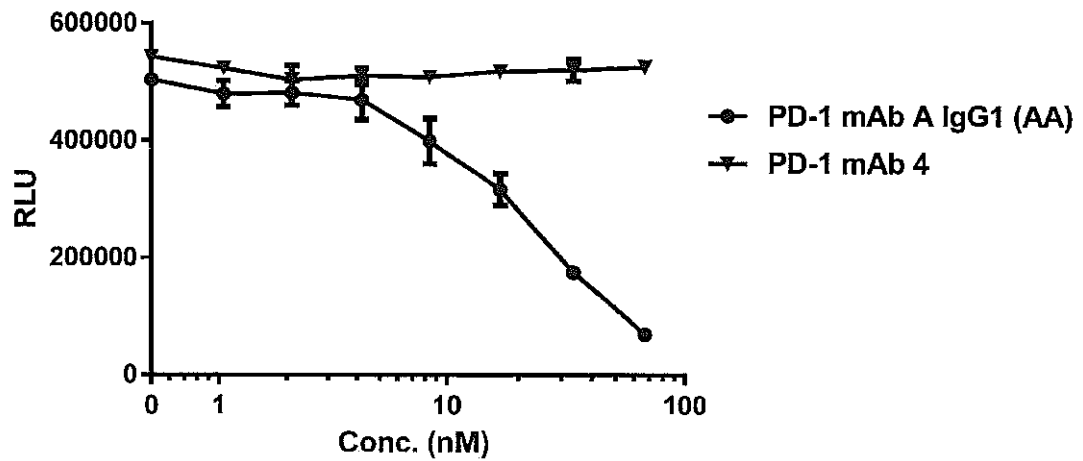


Figure 9B

PD-L1 Fc-biotin (1ug/ml) captured and shPD-1 His detected

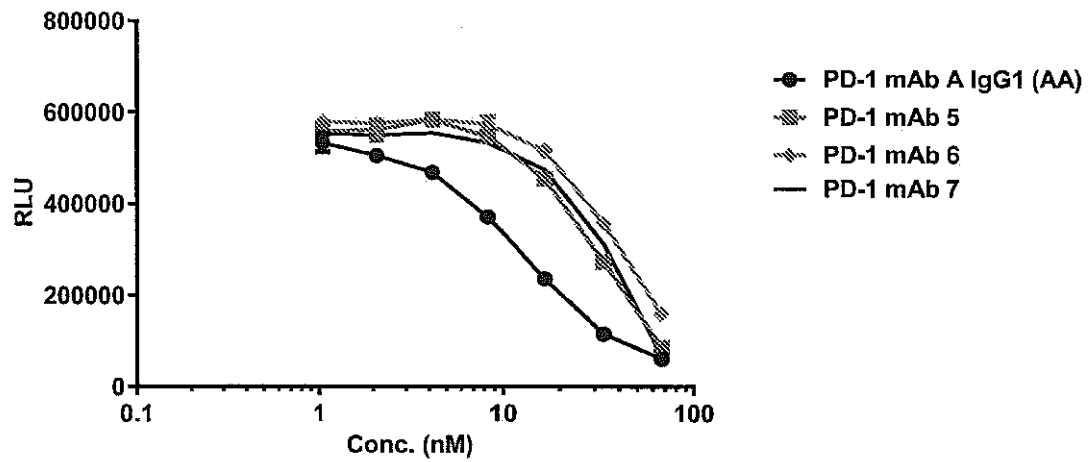


Figure 9C

PD-L1 Fc-biotin (1ug/ml) captured and shPD-1 His detected

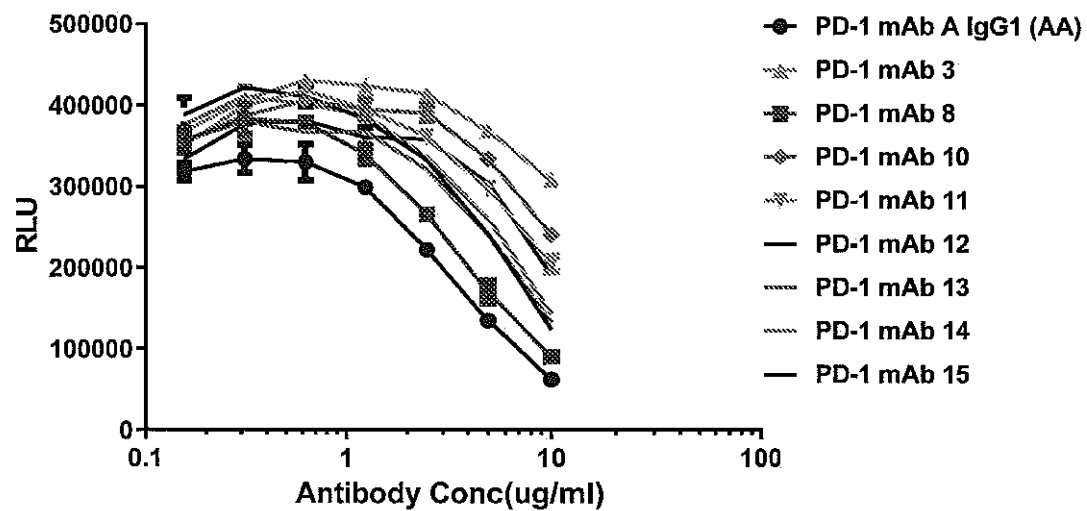


Figure 9D

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Normal Tissues

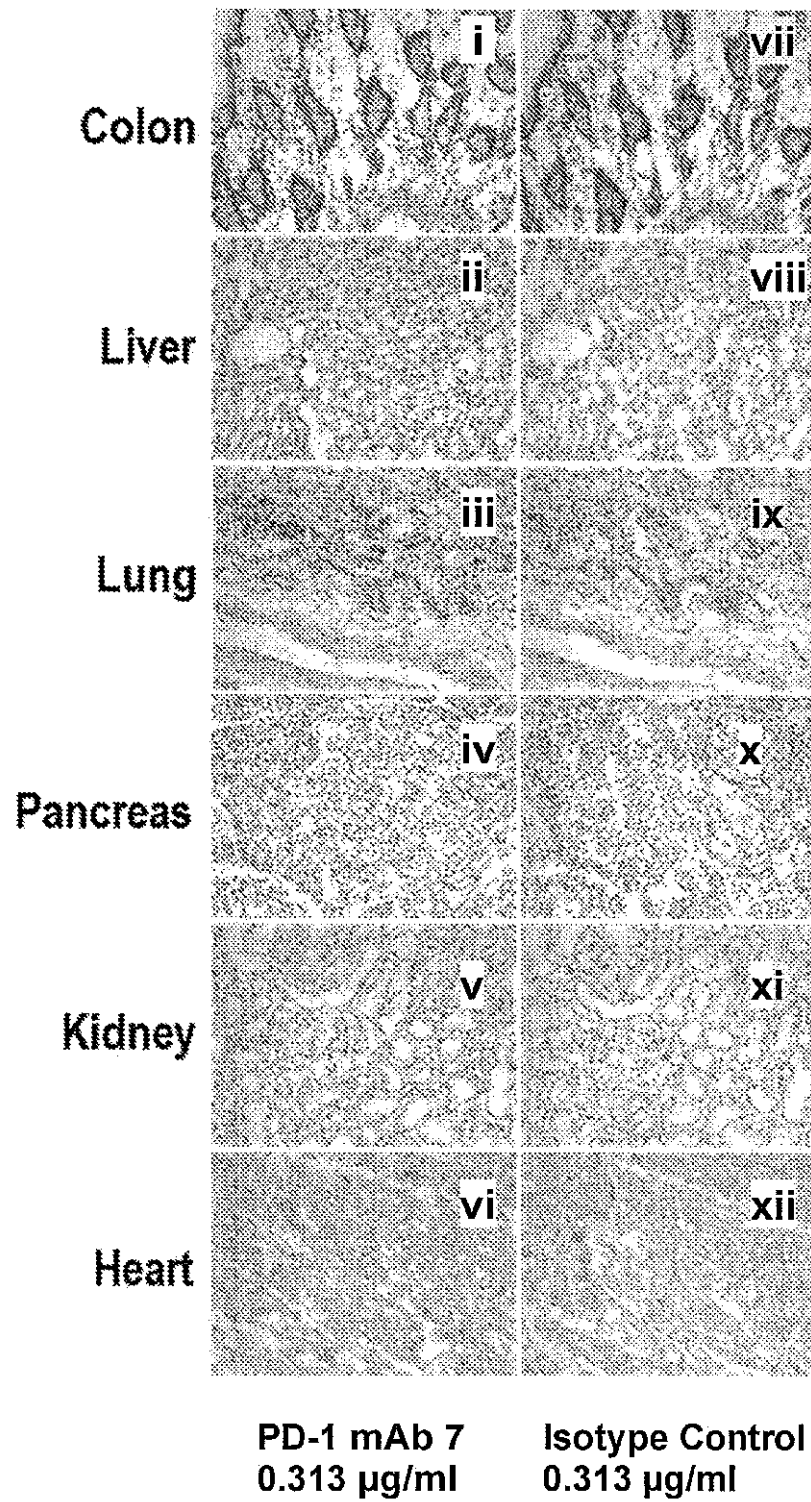


Figure 10A

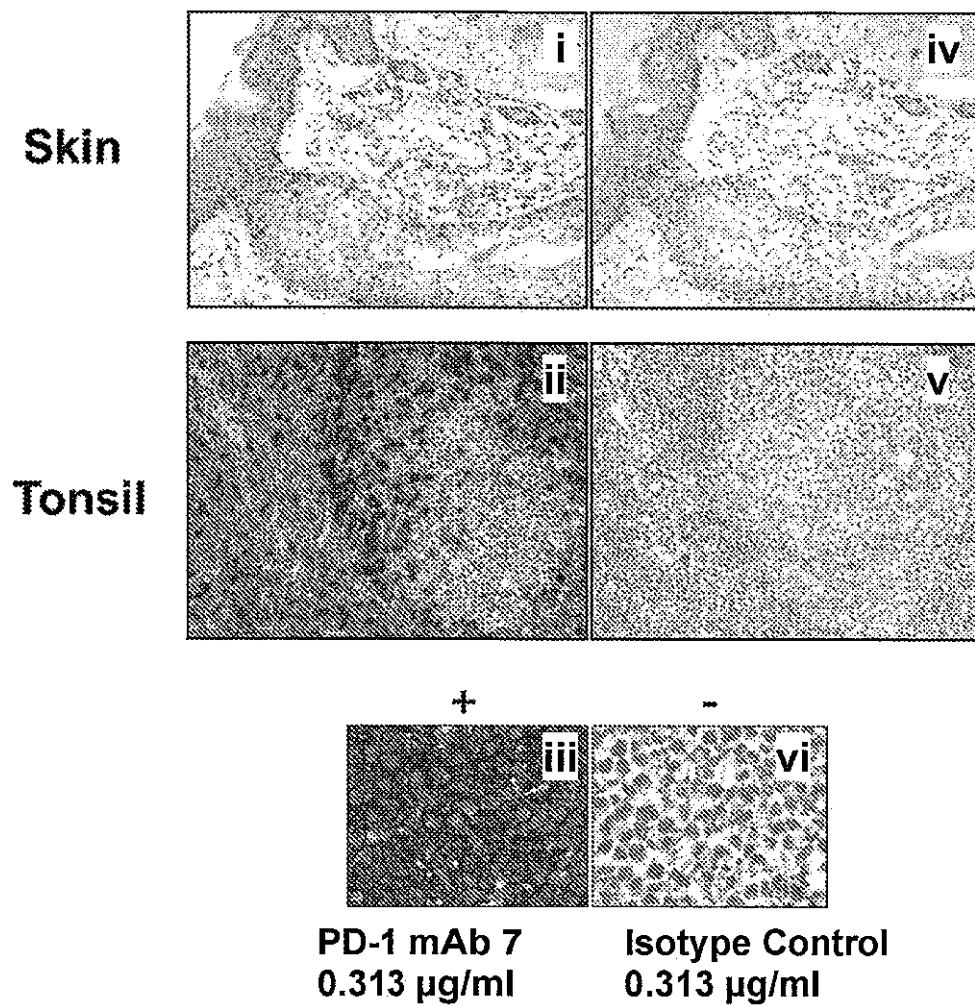
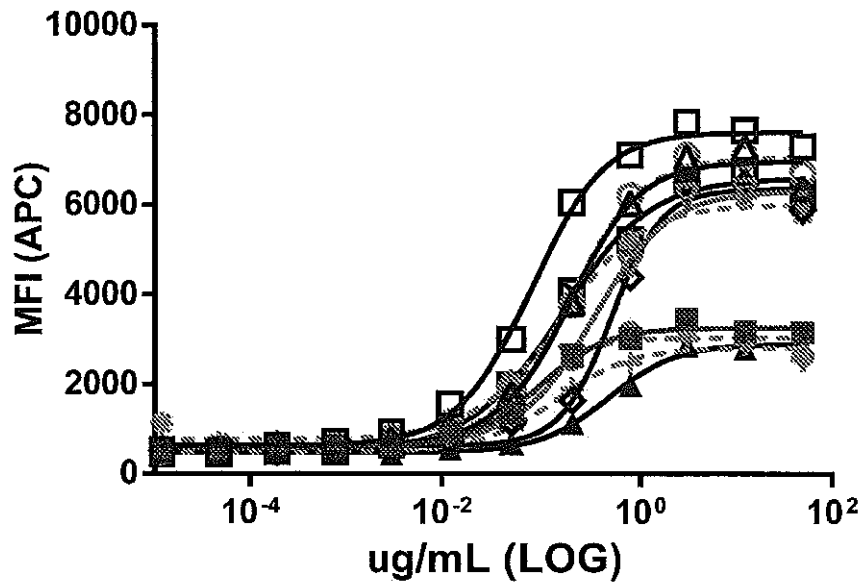


Figure 10B

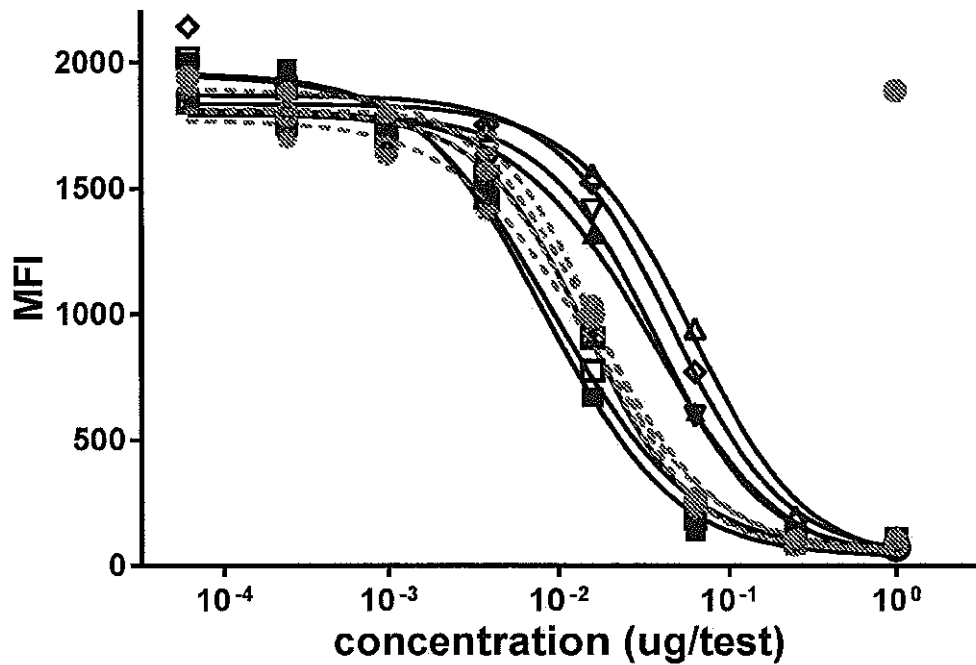
Saturation Curves (1:4 dilution)



- ◆ hPD-1 mAb 2 IgG1 (AA)
- hPD-1 mAb 7(1.1) IgG1 (AA)
- hPD-1 mAb 7(1.2) IgG1 (AA)
- hPD-1 mAb 7(1.2) IgG4 (P)
- ▲ hPD-1 mAb 9 (1.1) IgG1 (AA)
- ▲ hPD-1 mAb 9 (1.1) IgG4 (P)
- ◆ hPD-1 mAb 15 IgG1 (AA)
- PD-1 mAb A IgG1 (AA)
- PD-1 mAb A IgG4 (P)
- ◆ PD-1 mAb B IgG1 (AA)
- ◆ PD-1 mAb B IgG4 (P)

Figure 11

Blocking of sPD-L1 (1:4 dilution)



- | | |
|-------------------------------|-------------|
| ◆ hPD-1 mAb 2 IgG1 (AA) | ● PDL1 only |
| ■ hPD-1 mAb 7(1.1) IgG1 (AA) | ○ Unstained |
| □ hPD-1 mAb 7(1.2) IgG1 (AA) | |
| ■ hPD-1 mAb 7(1.2) IgG4 (P) | |
| ▲ hPD-1 mAb 9 (1.1) IgG1 (AA) | |
| ▲ hPD-1 mAb 9 (1.1) IgG4 (P) | |
| ▼ hPD-1 mAb 15 IgG1 (AA) | |
| ⊙ PD-1 mAb A IgG1(AA) | |
| ⊙ PD-1 mAb A IgG4 (P) | |
| ⊙ PD-1 mAb B IgG1 (AA) | |
| ⊙ PD-1 mAb B IgG4 (P) | |

Figure 12A

Blocking of sPD-L2 (1:4 dilution)

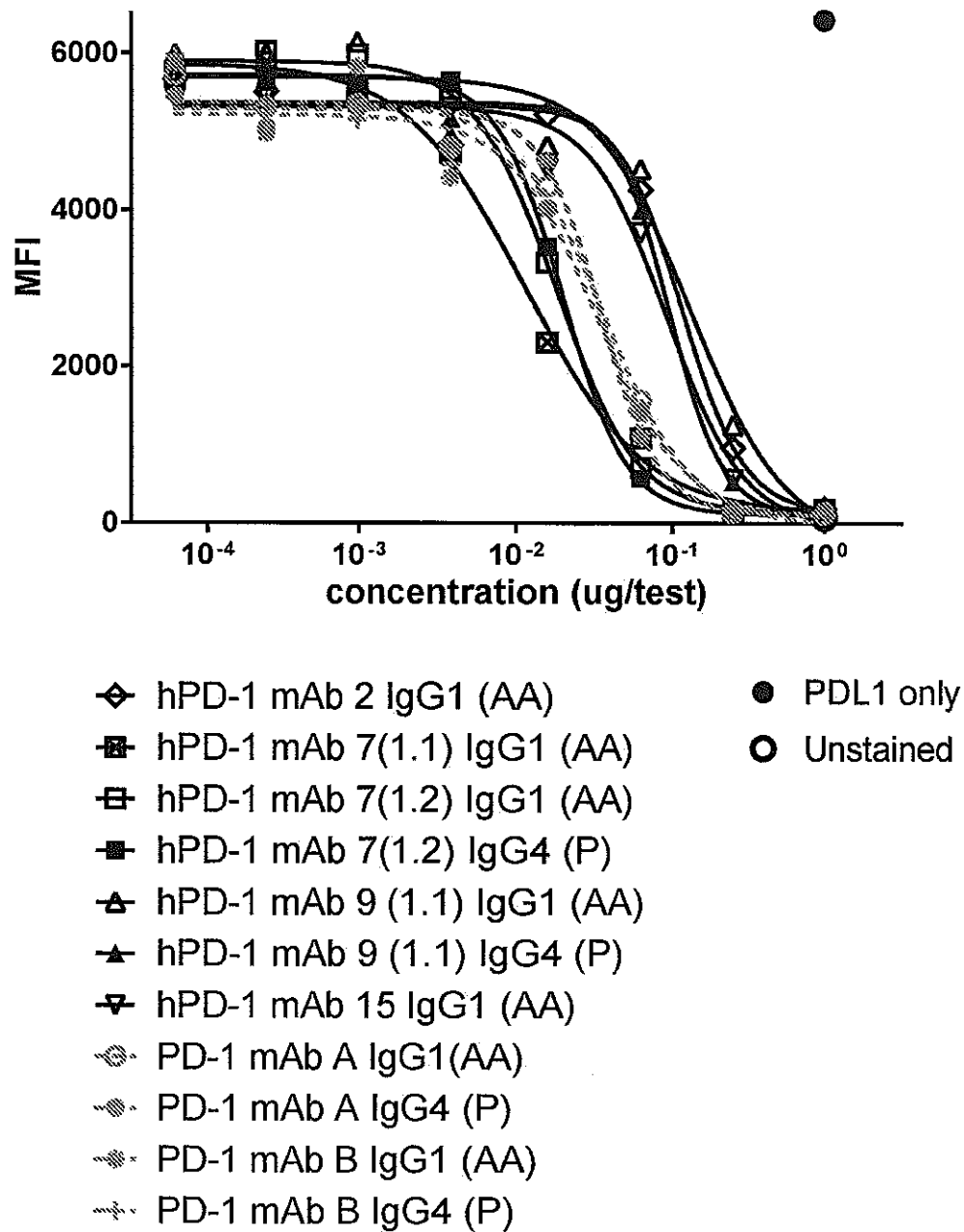
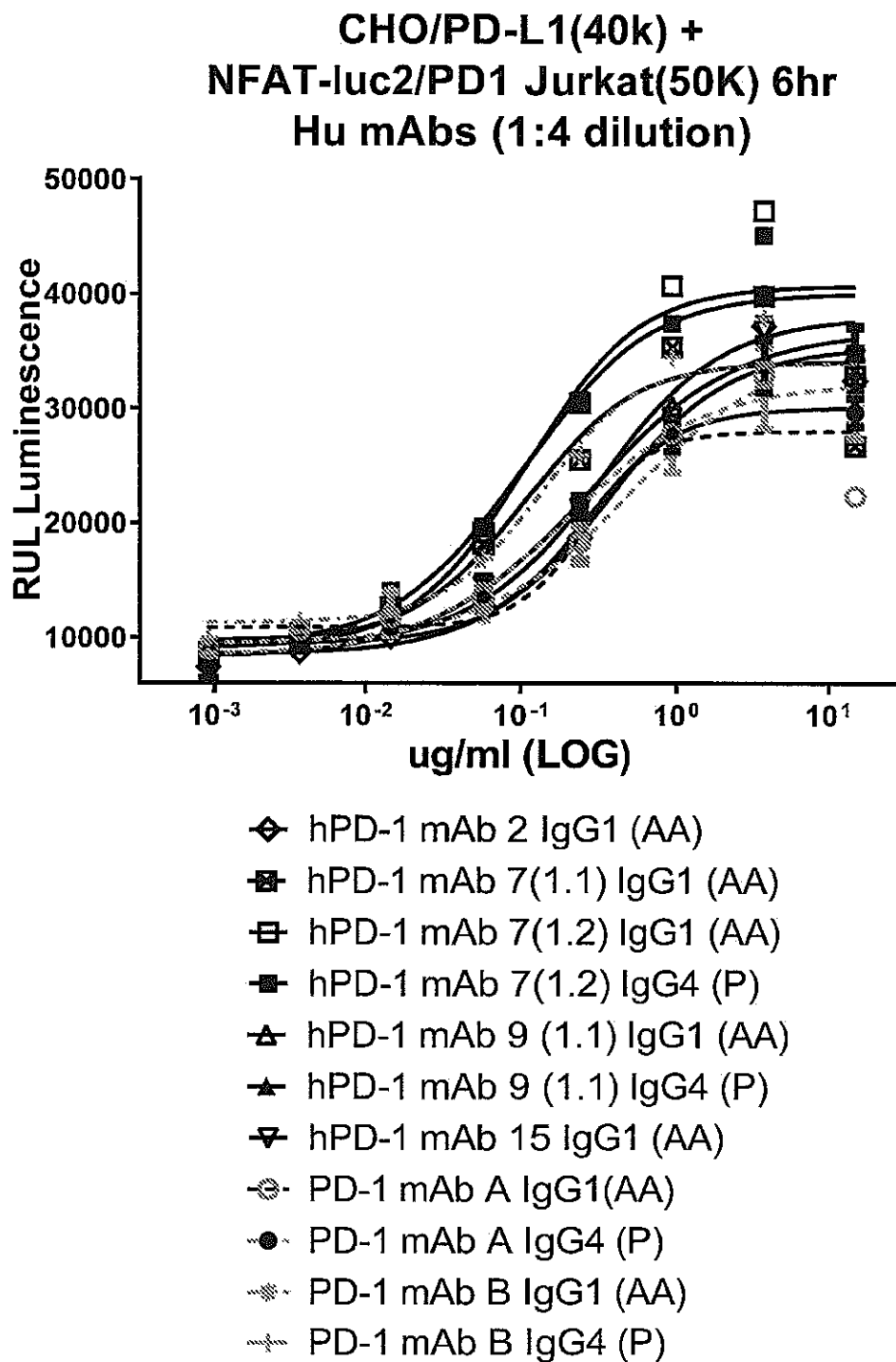
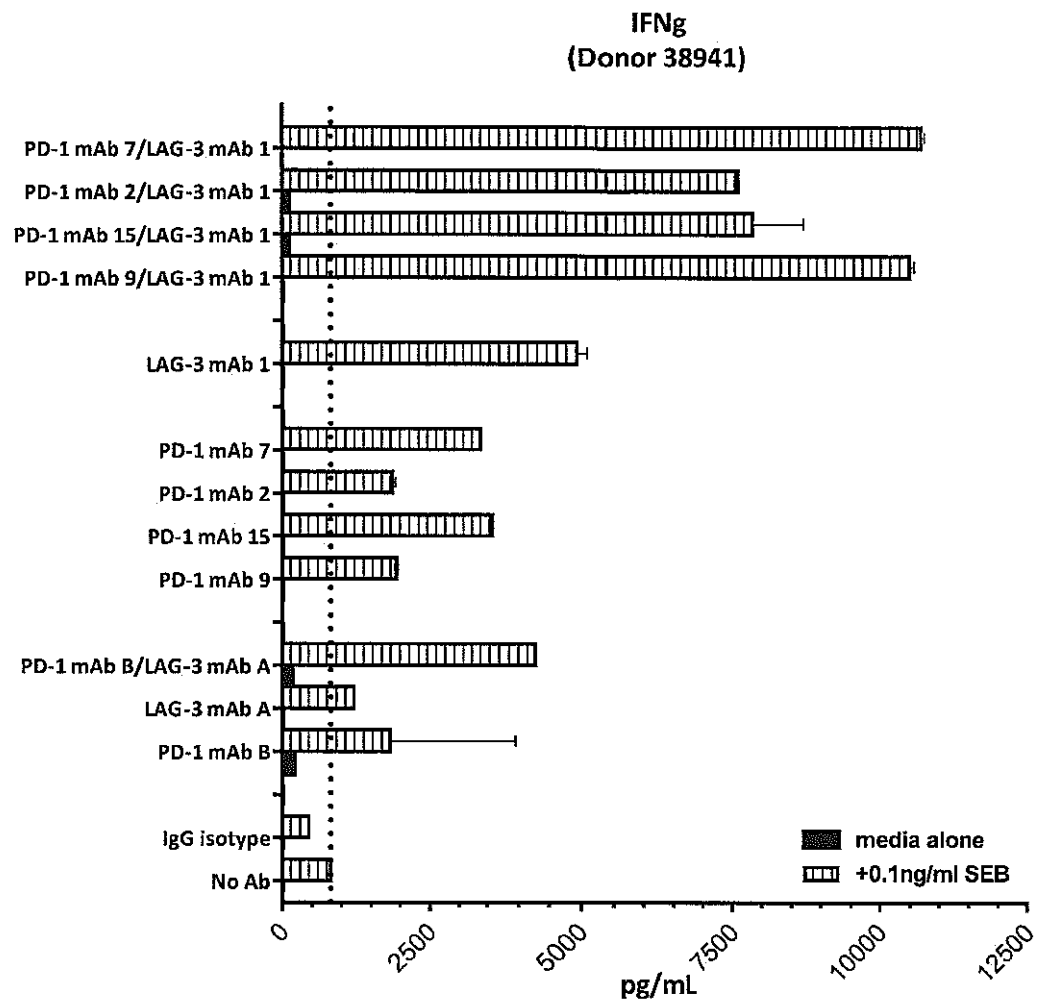


Figure 12B

**Figure 13**

**Figure 14**

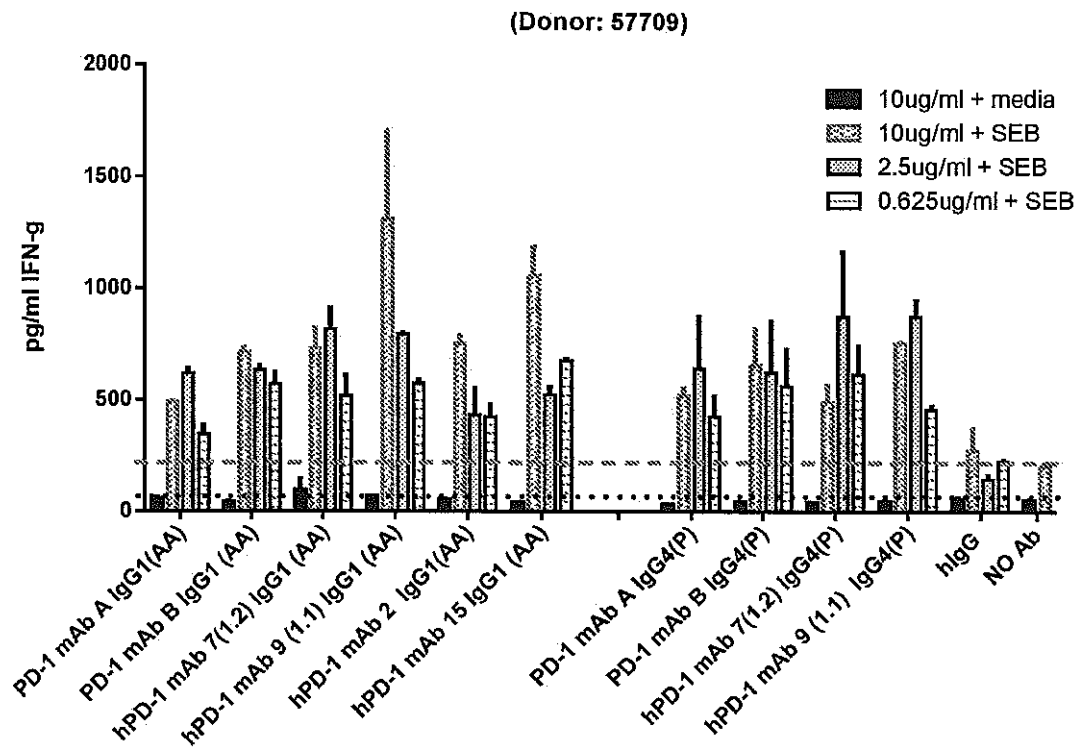


Figure 15A

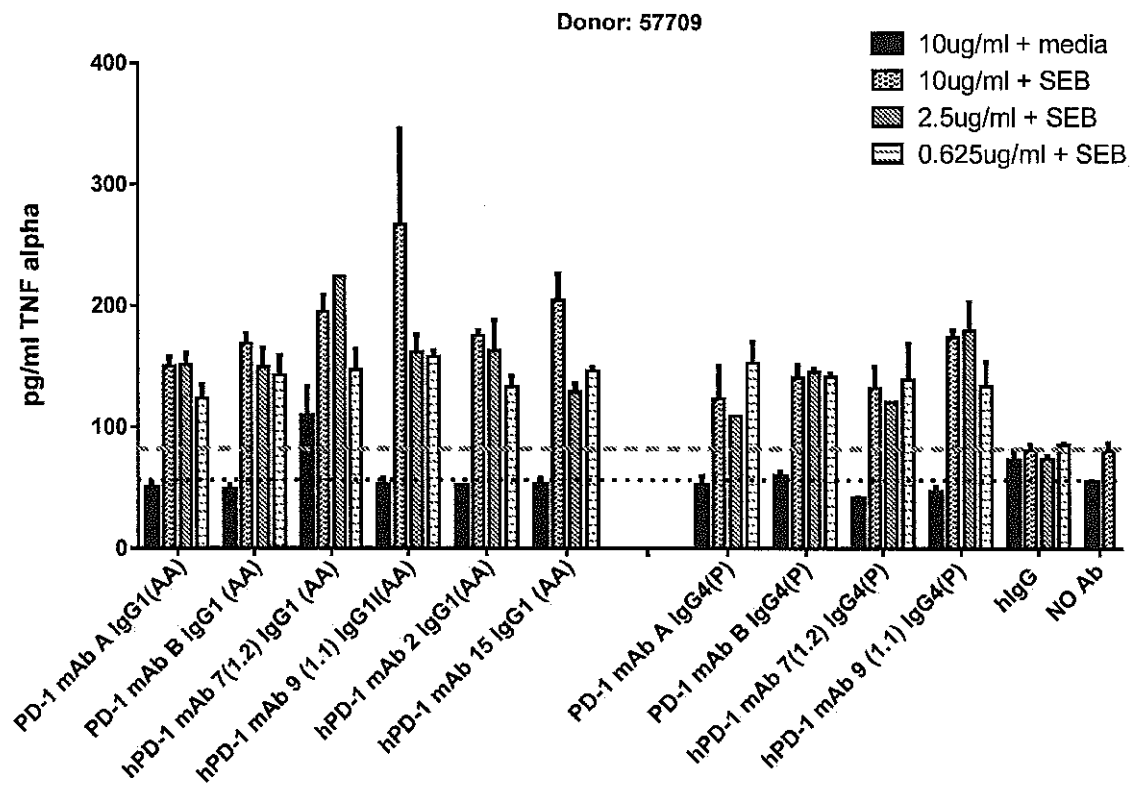


Figure 15B

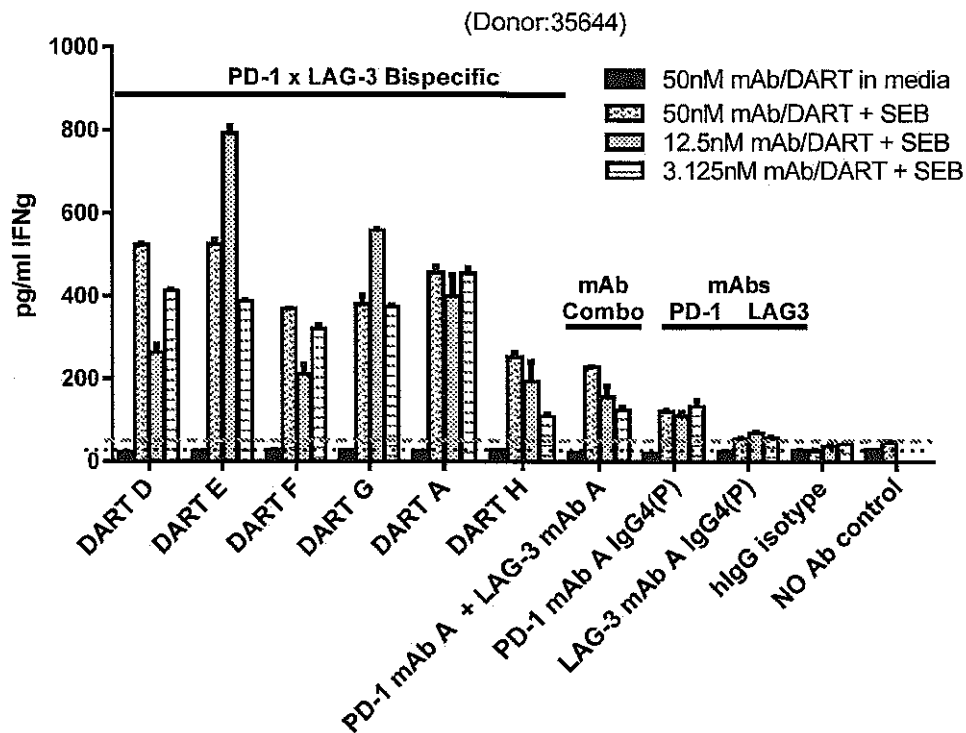


Figure 16A

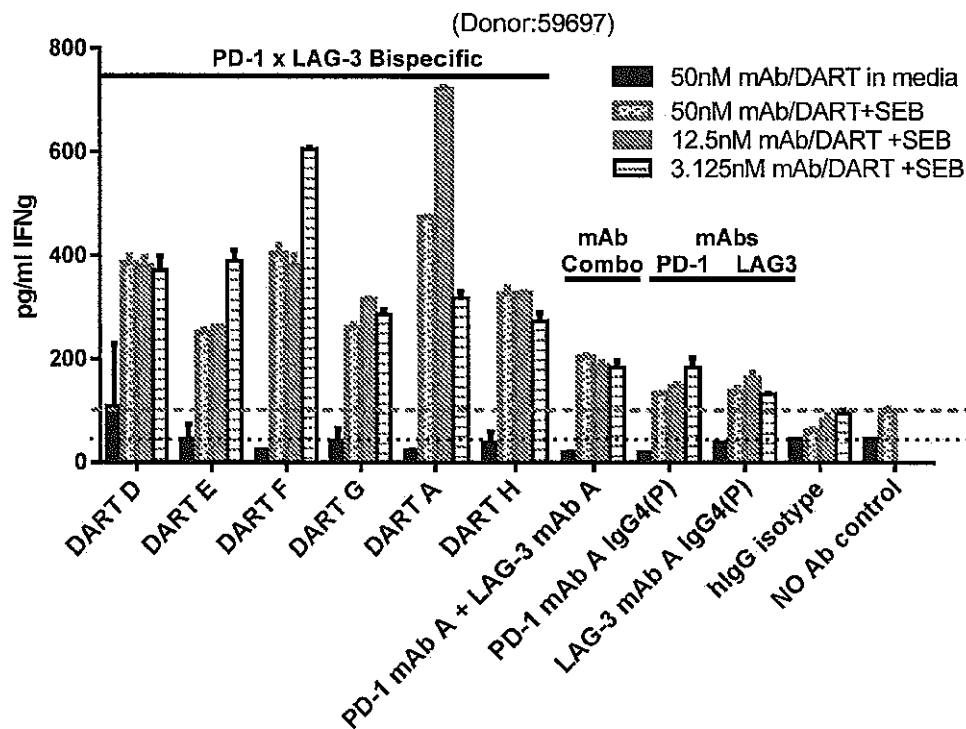


Figure 16B

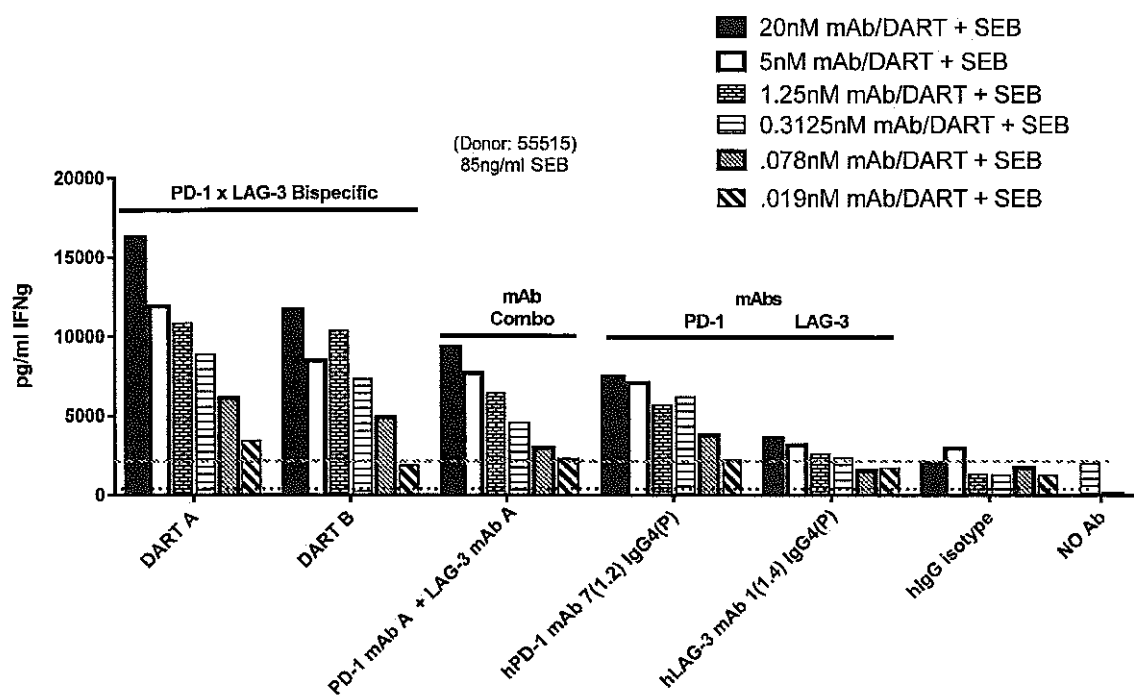


Figure 17A

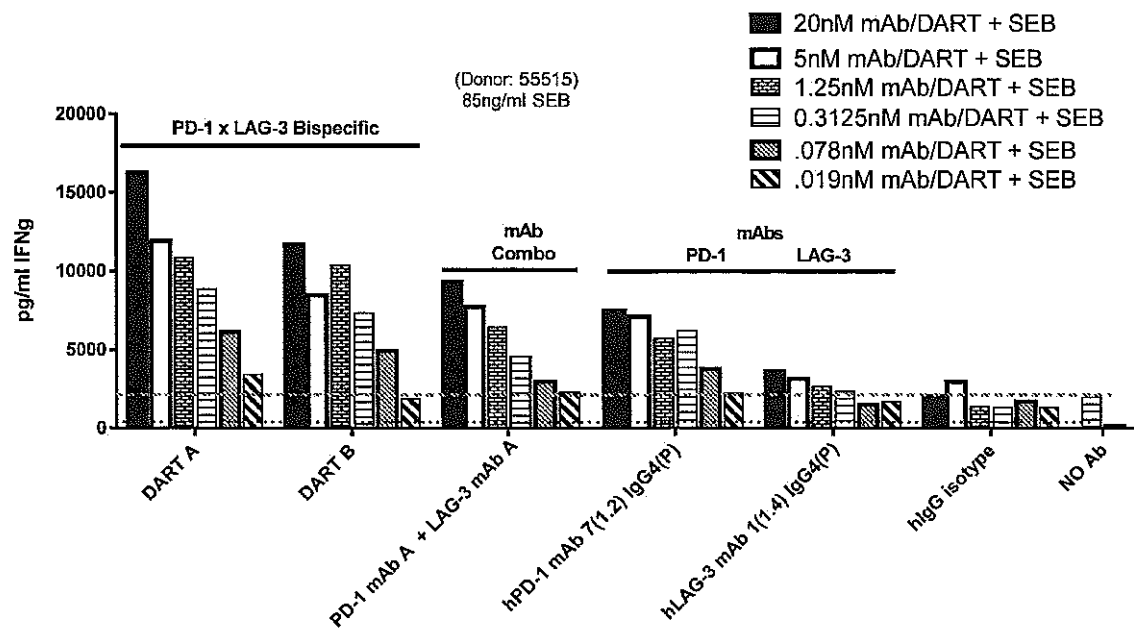


Figure 17B

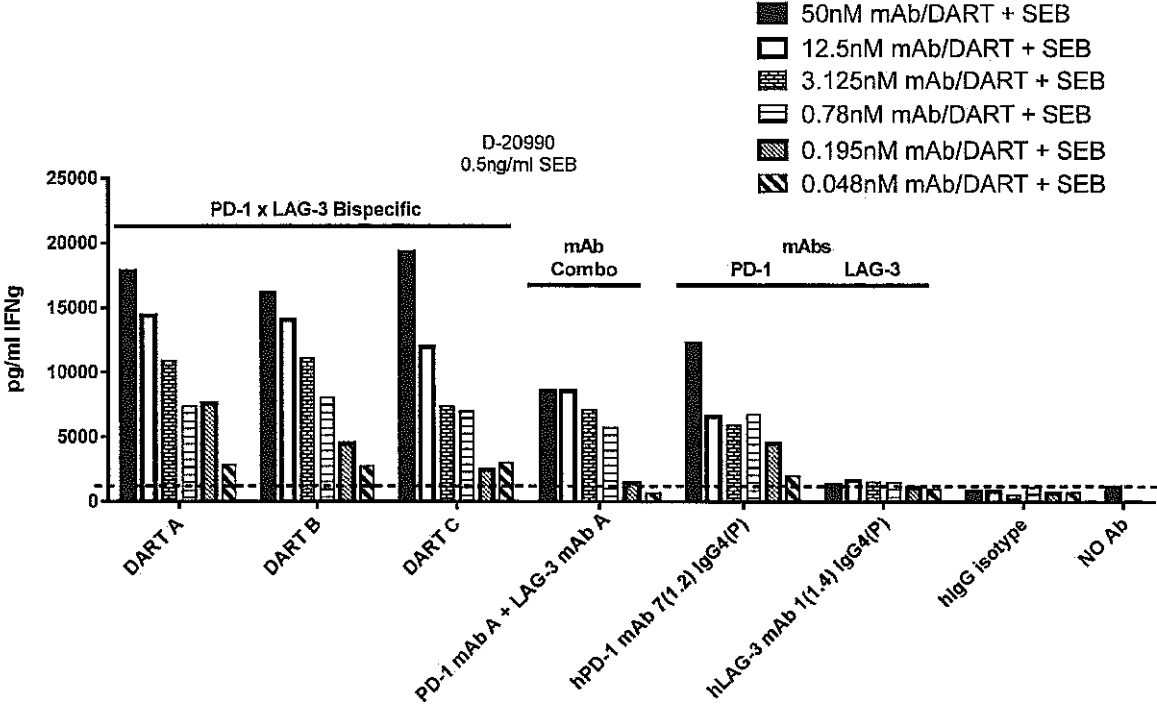


Figure 18A

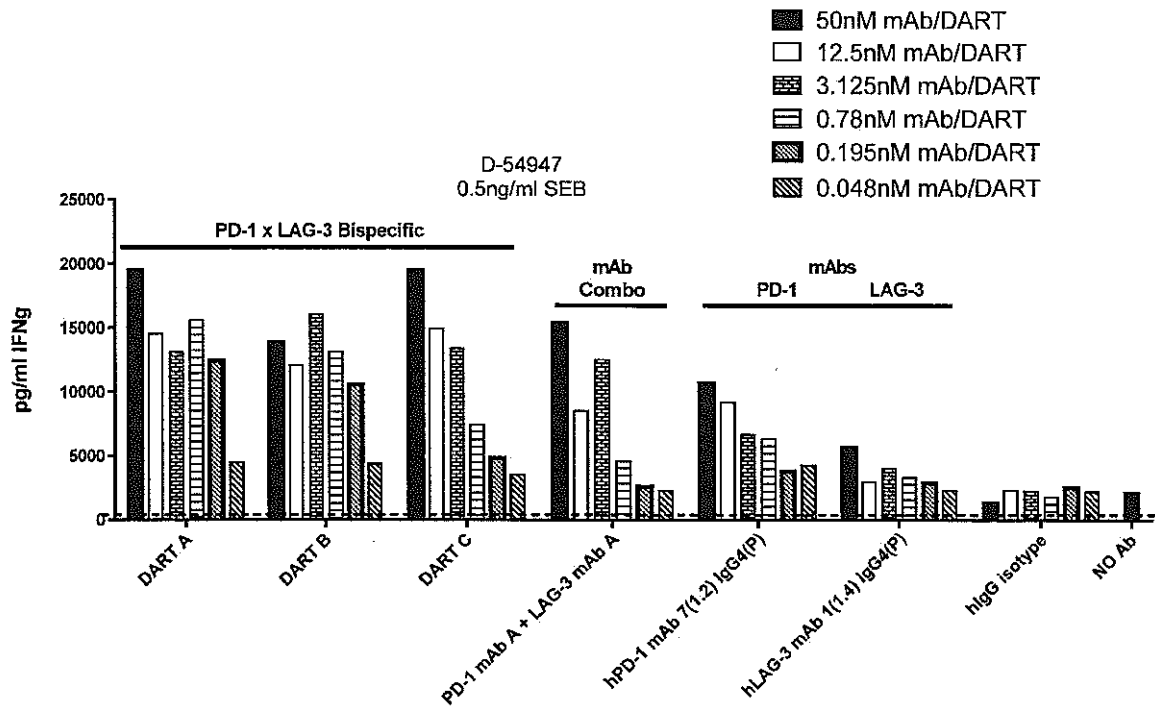


Figure 18B

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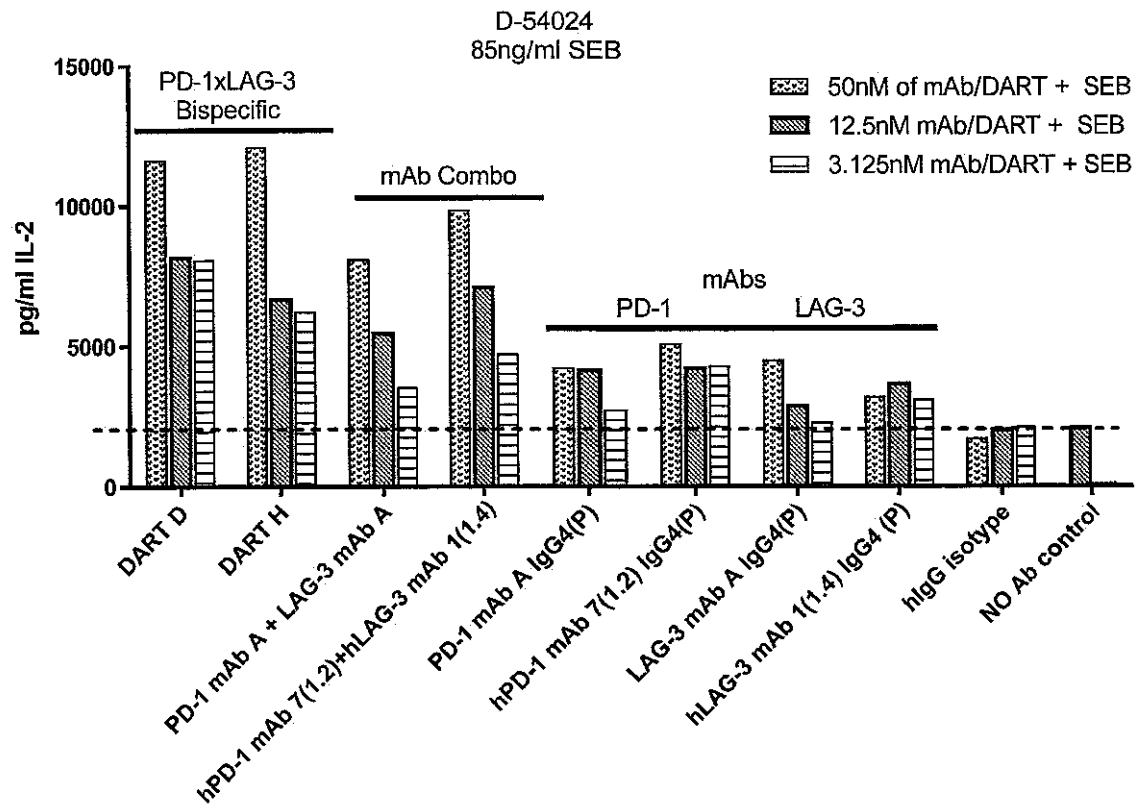


Figure 19

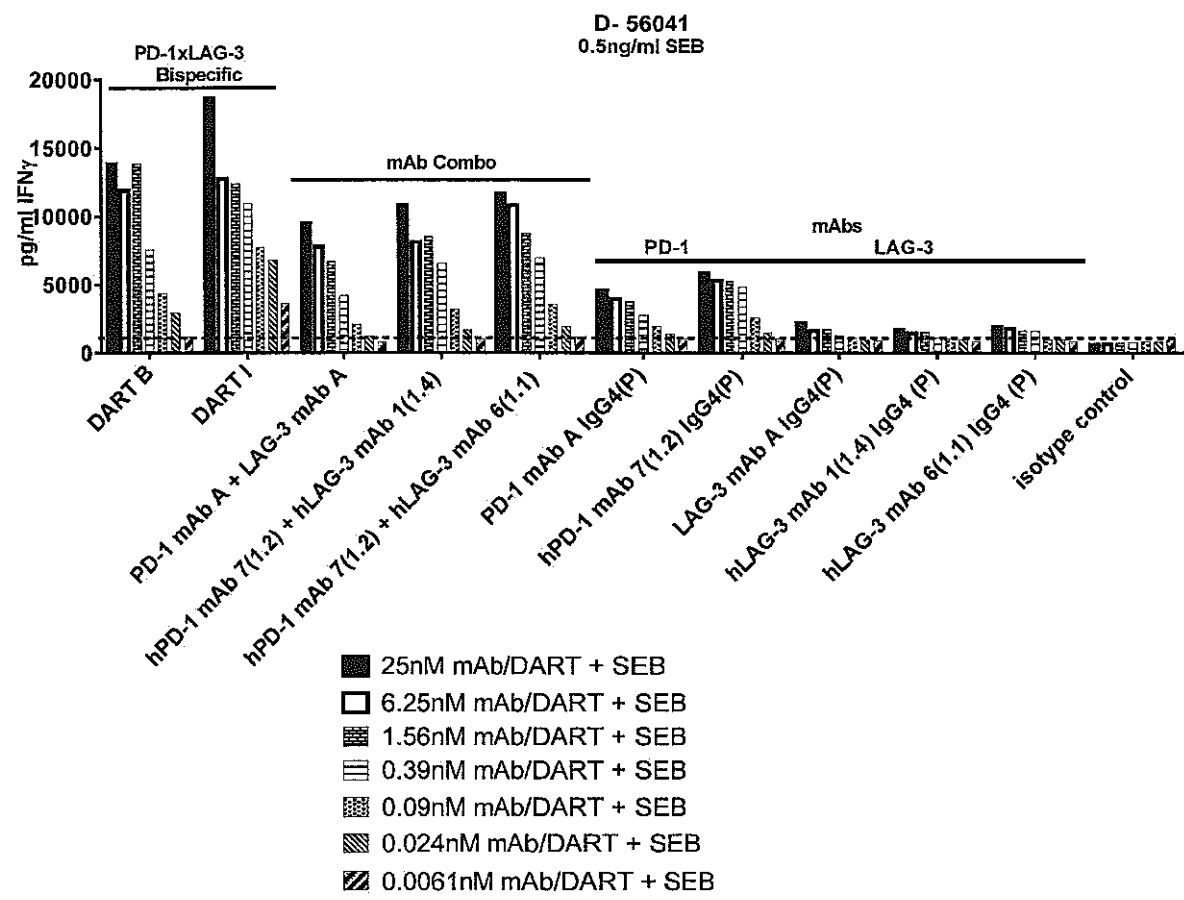
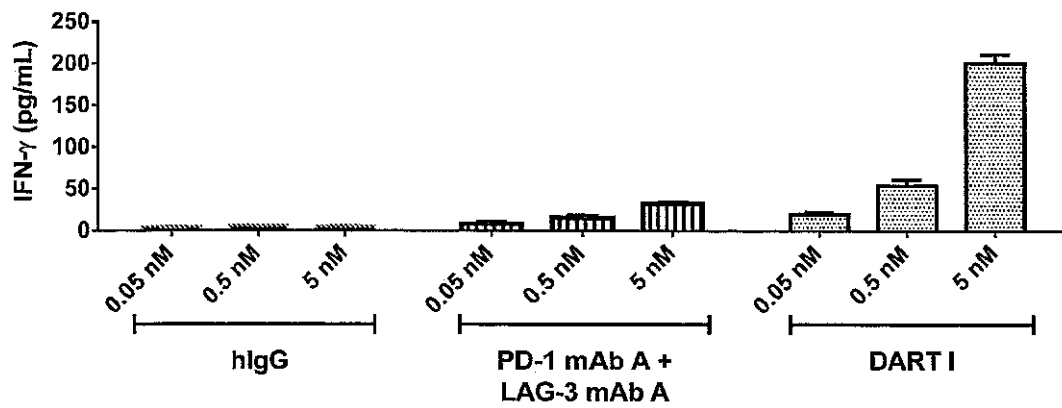
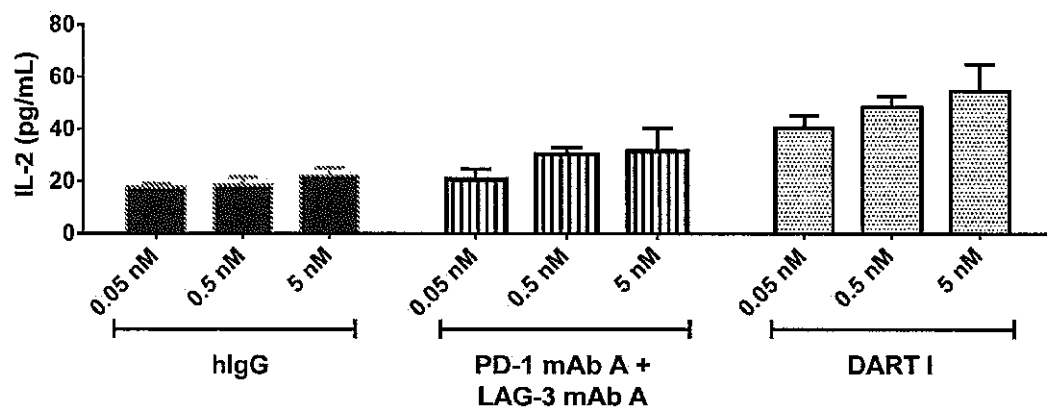


Figure 20

**Figure 21A****Figure 21B**

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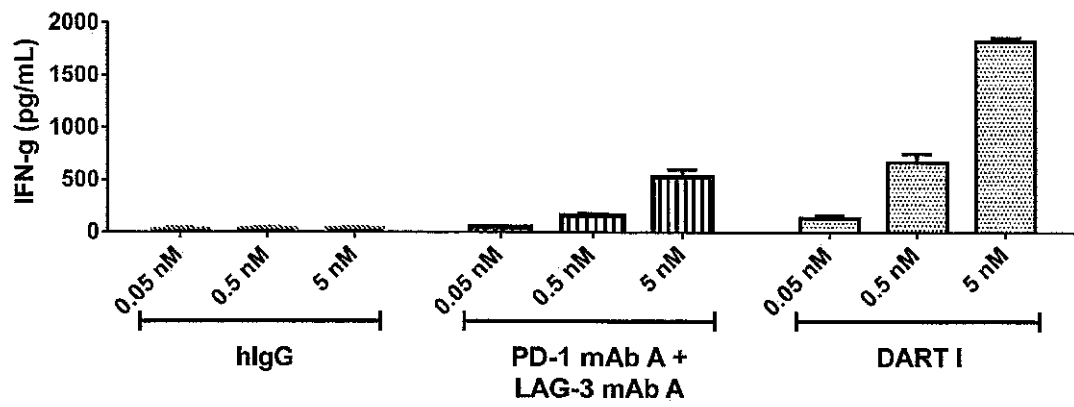


Figure 21C

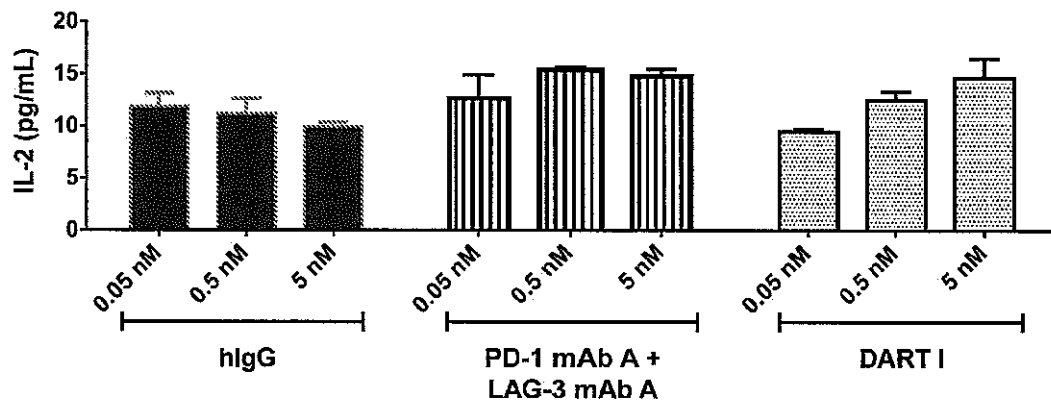


Figure 21D

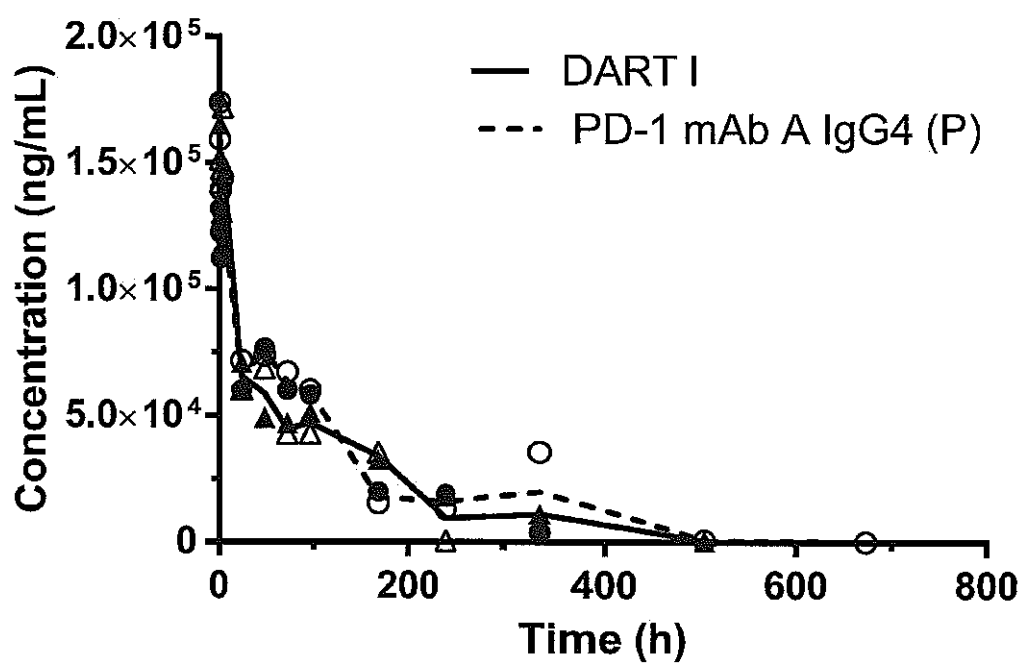


Figure 22

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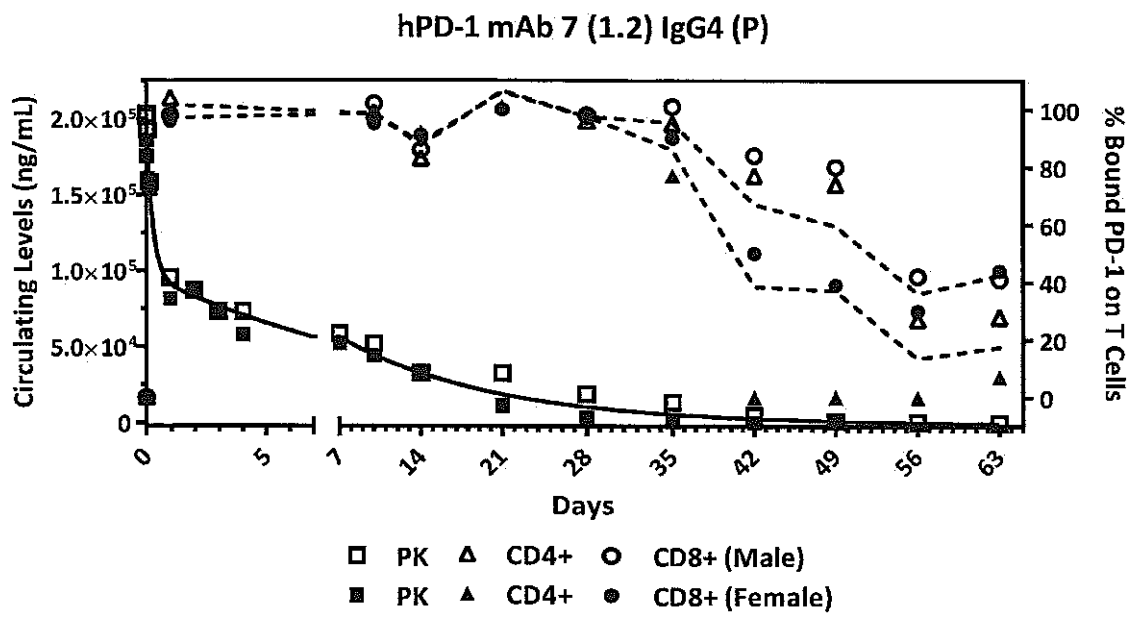


Figure 23A

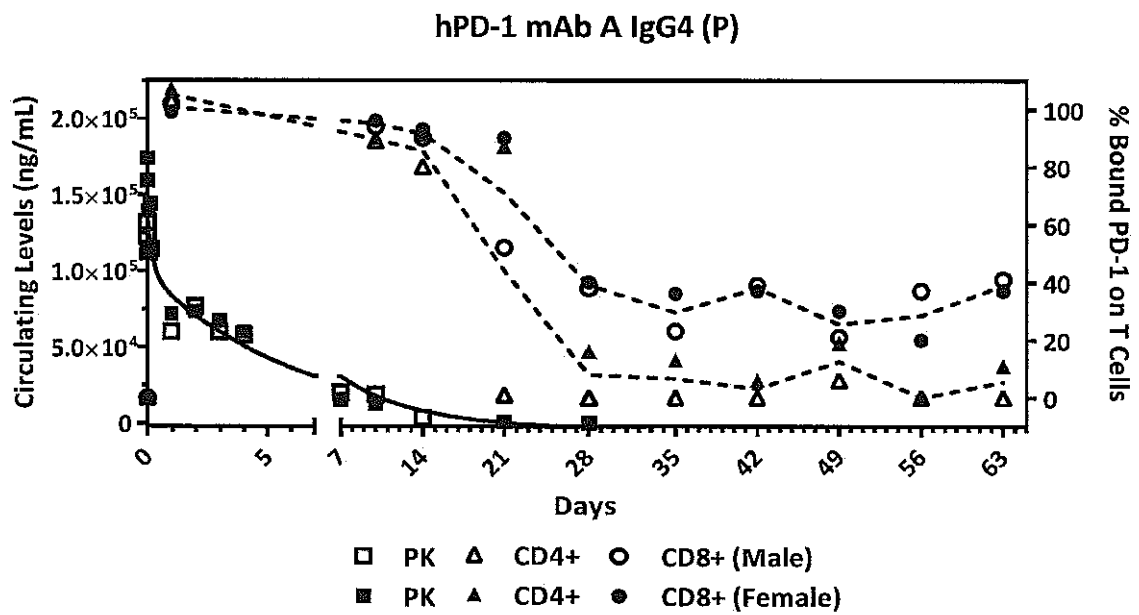


Figure 23B

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hPD-1 mAb B IgG4 (P)

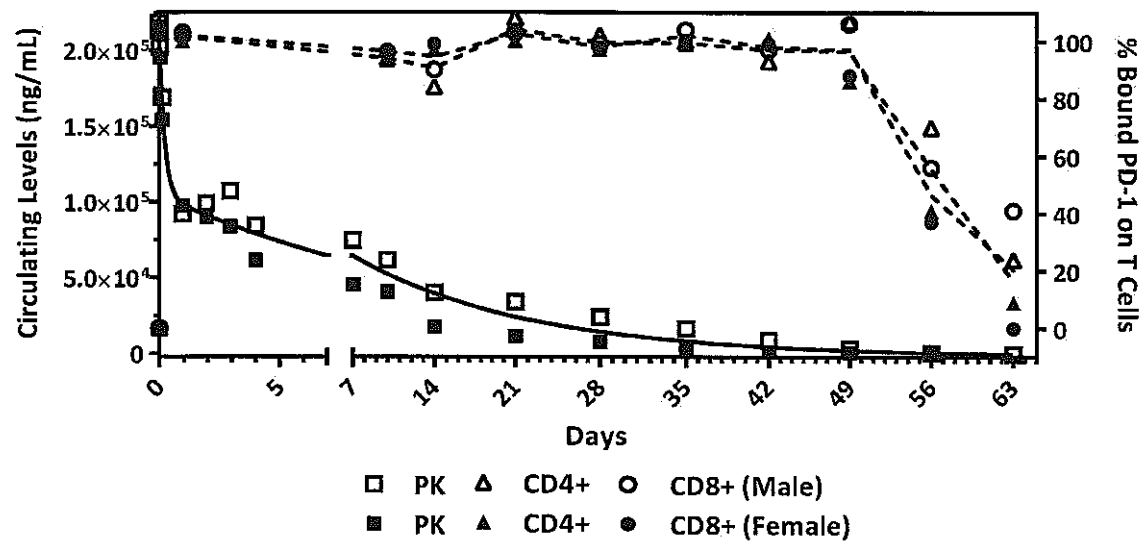


Figure 23C