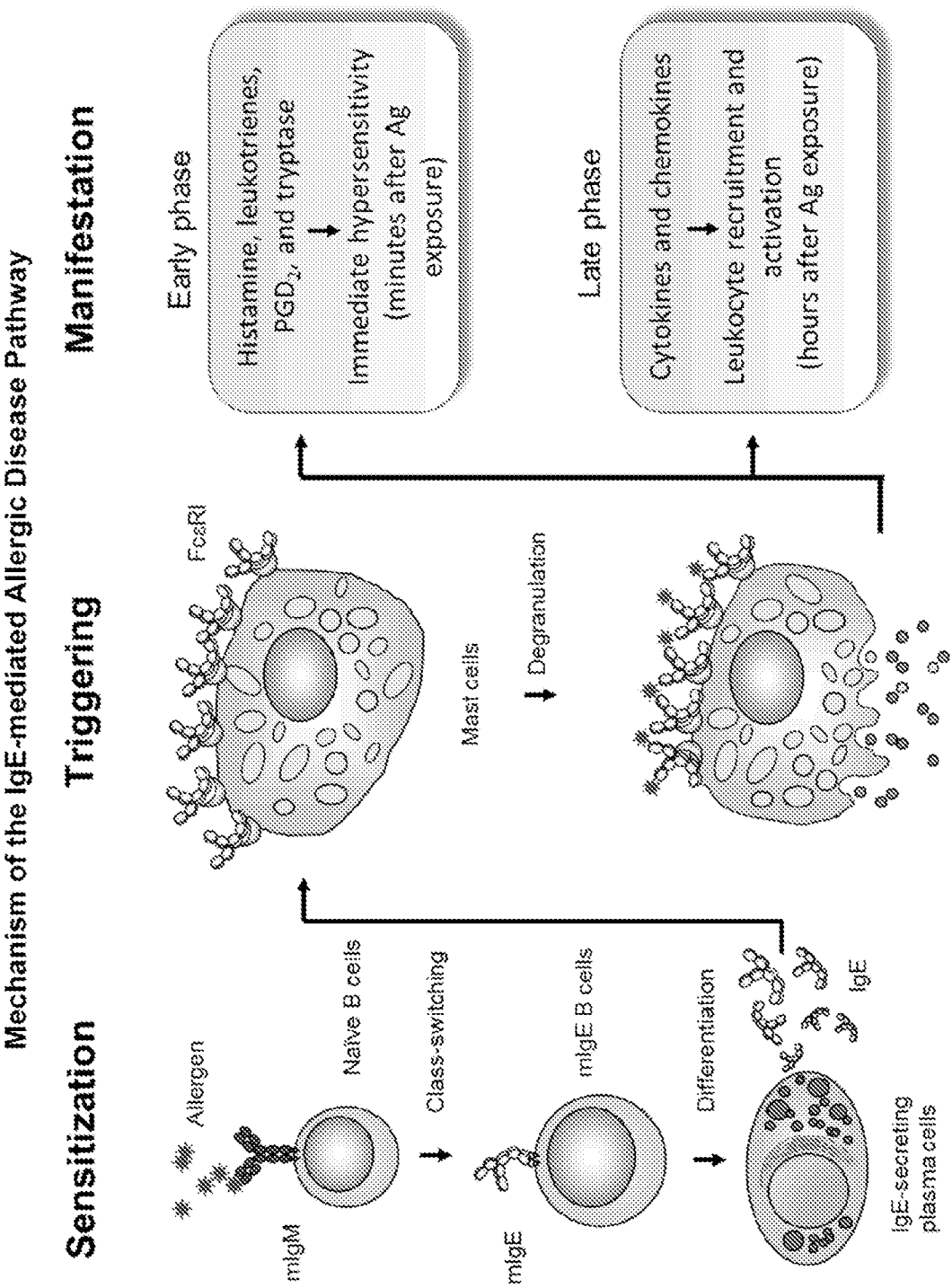


Figure 1



Secreted IgE and membrane-bound IgE

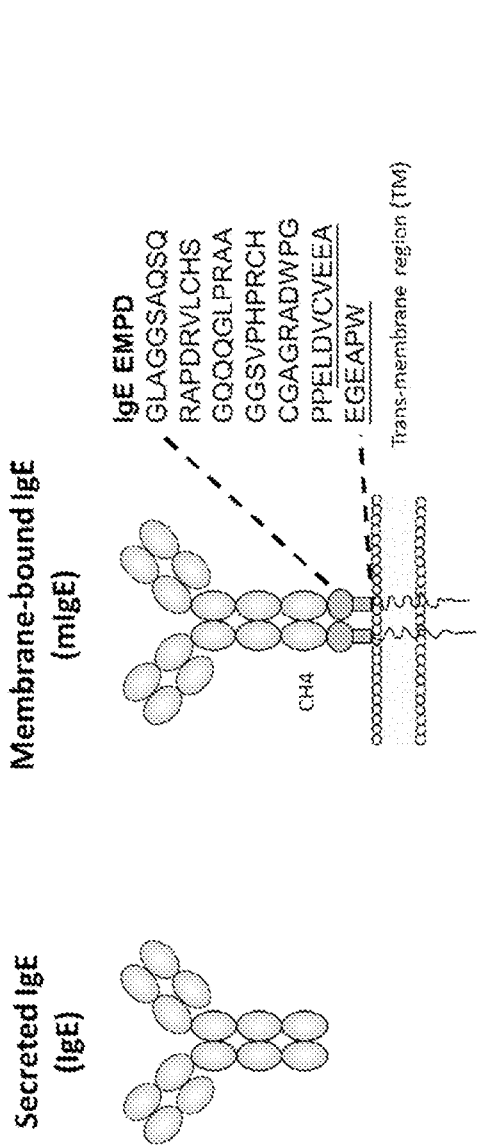


Figure 2A

Targeting membrane-bound IgE (mIgE) B cells

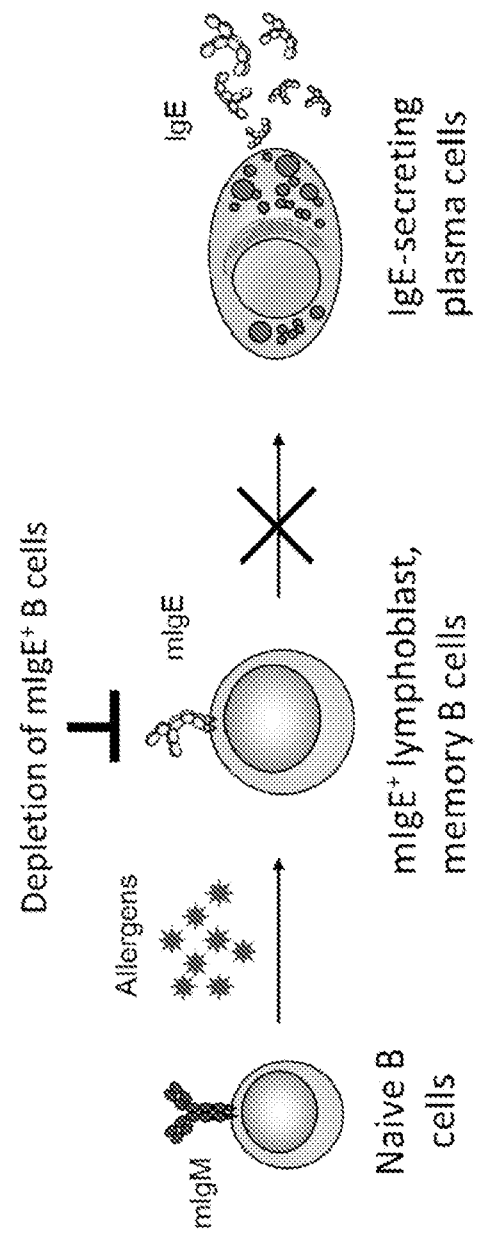


Figure 2B

Figure 3

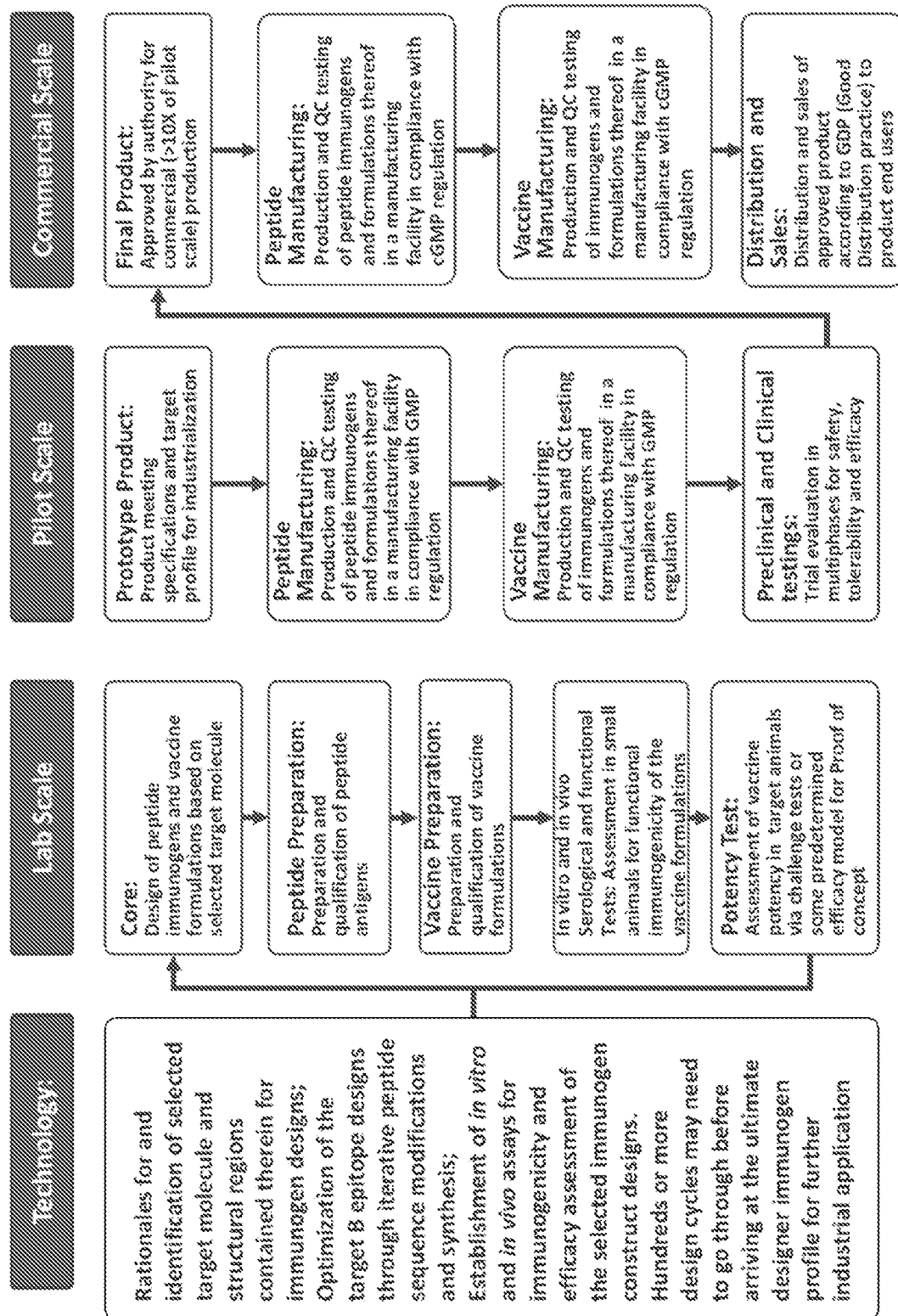


Figure 4

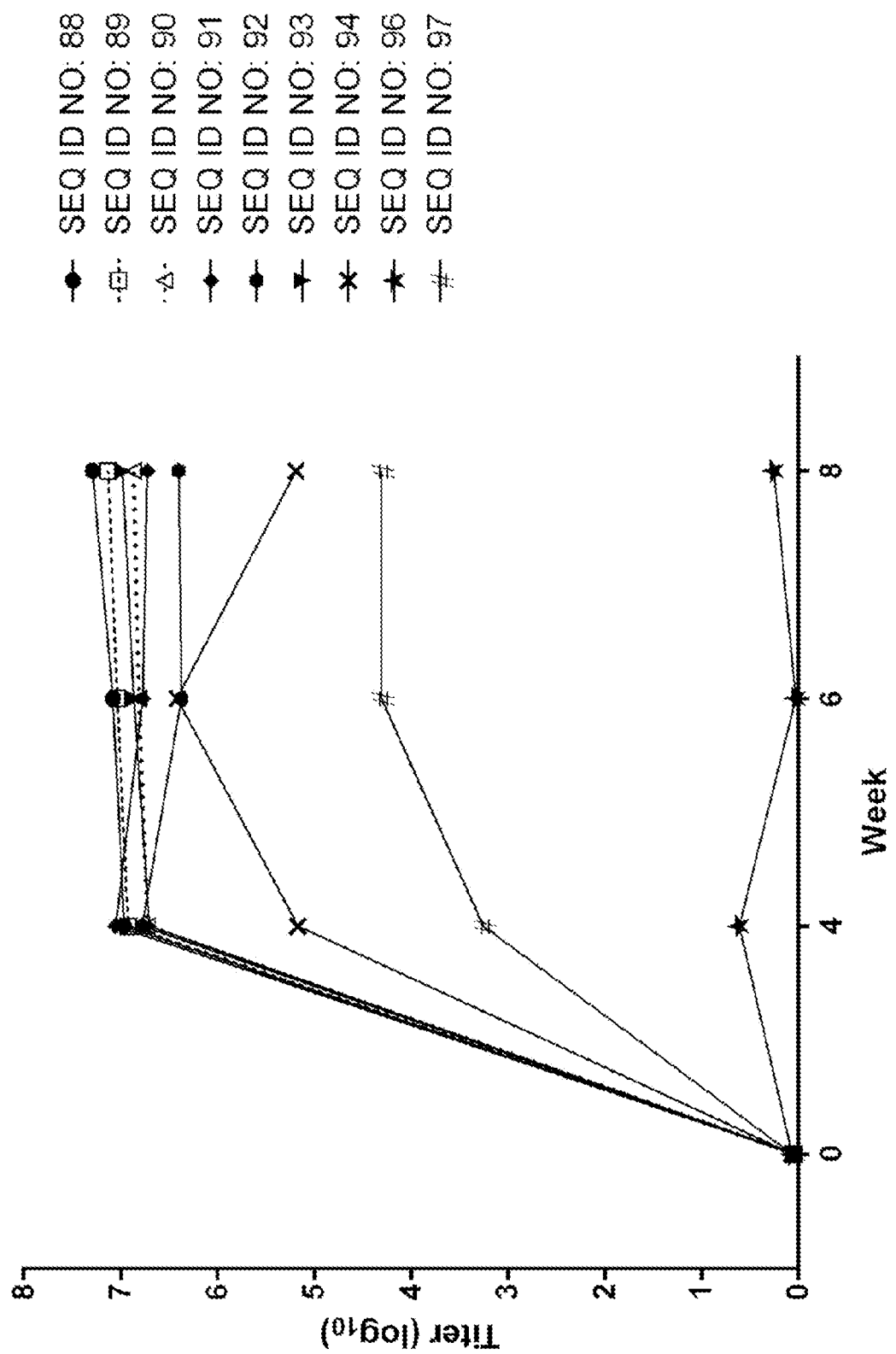


Figure 5

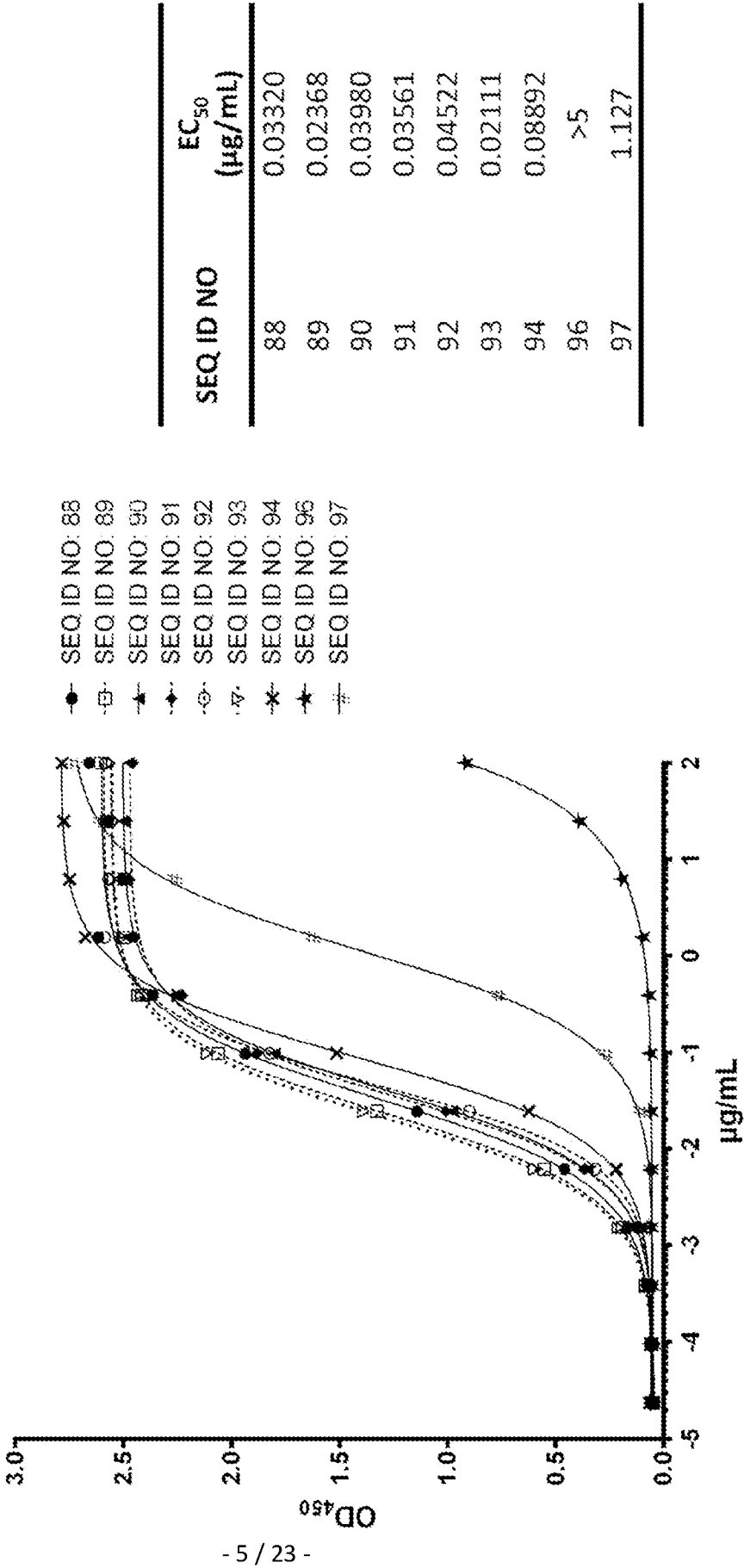


Figure 6A

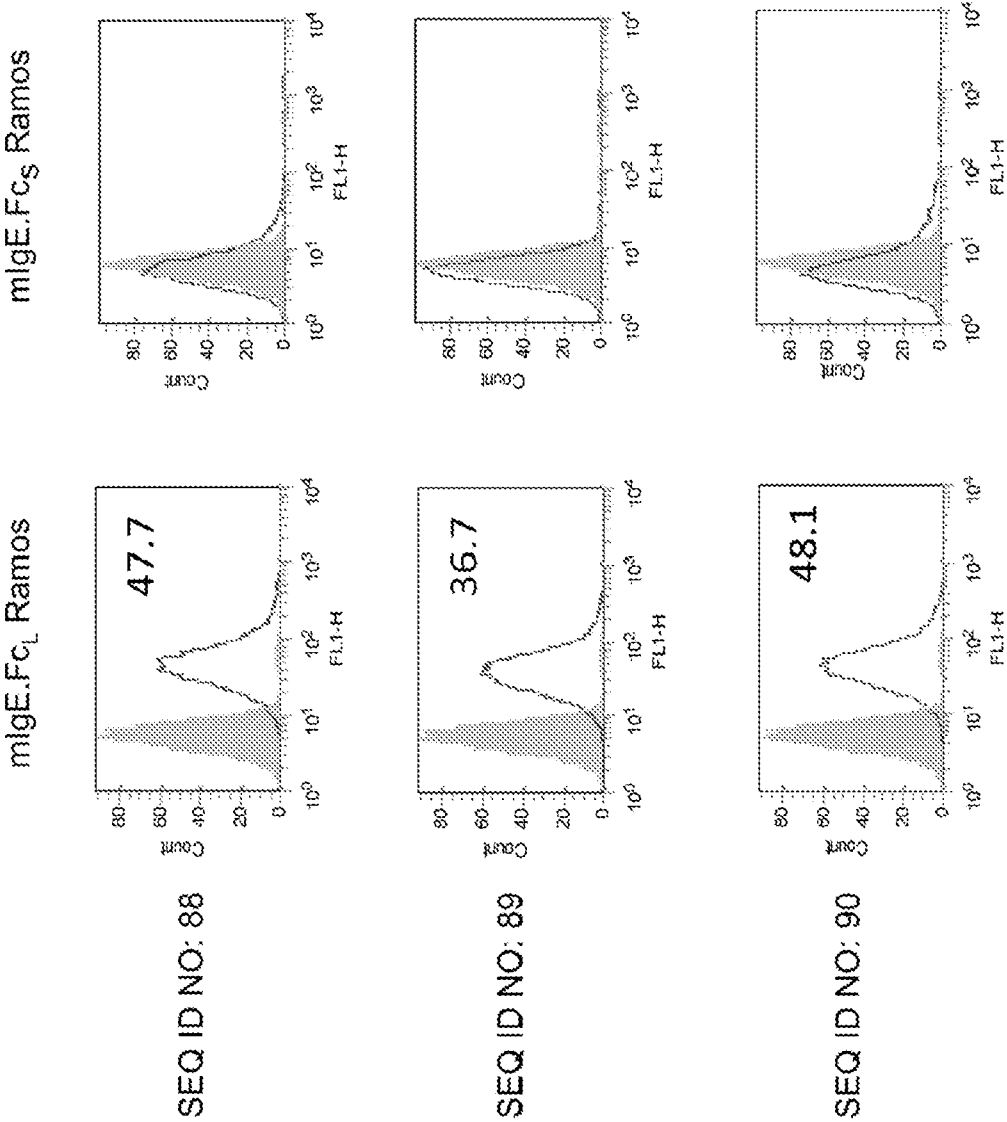


Figure 6B

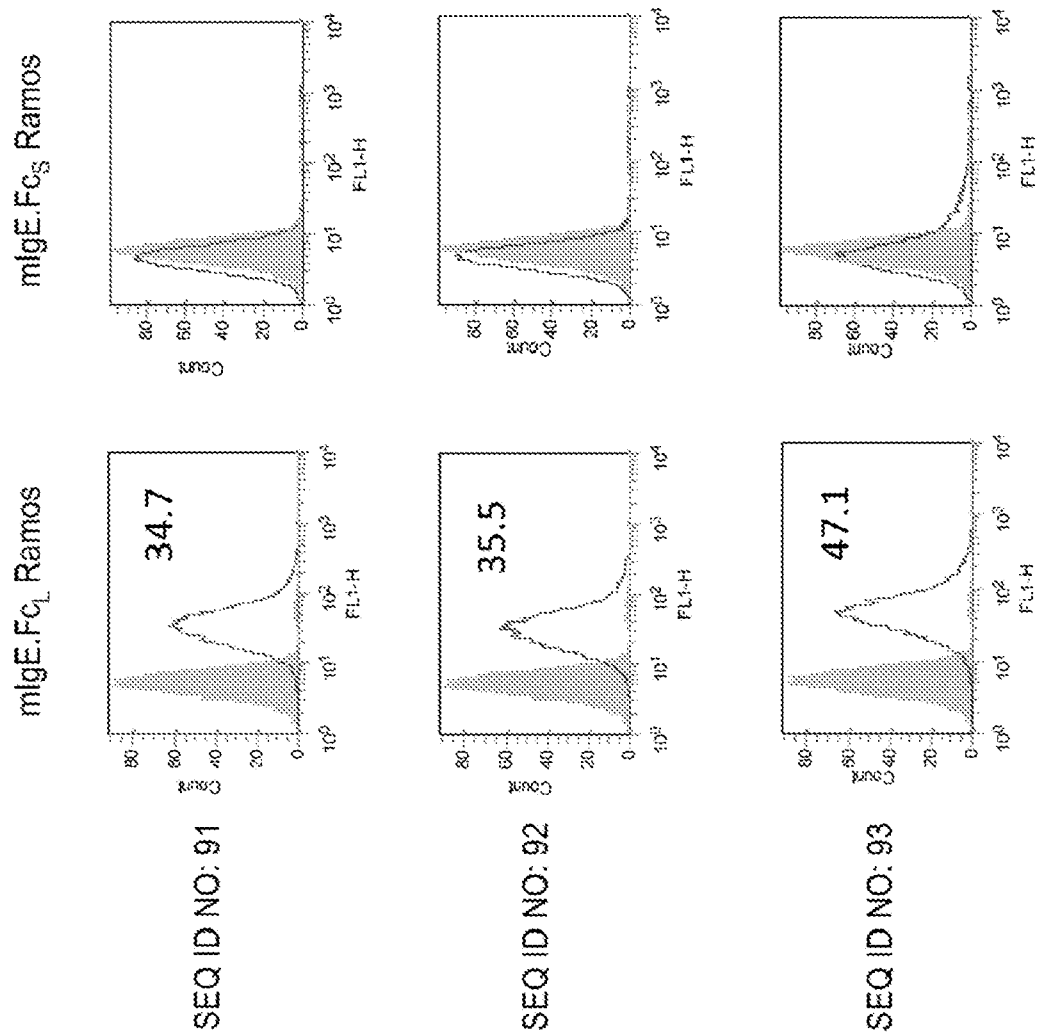


Figure 6C

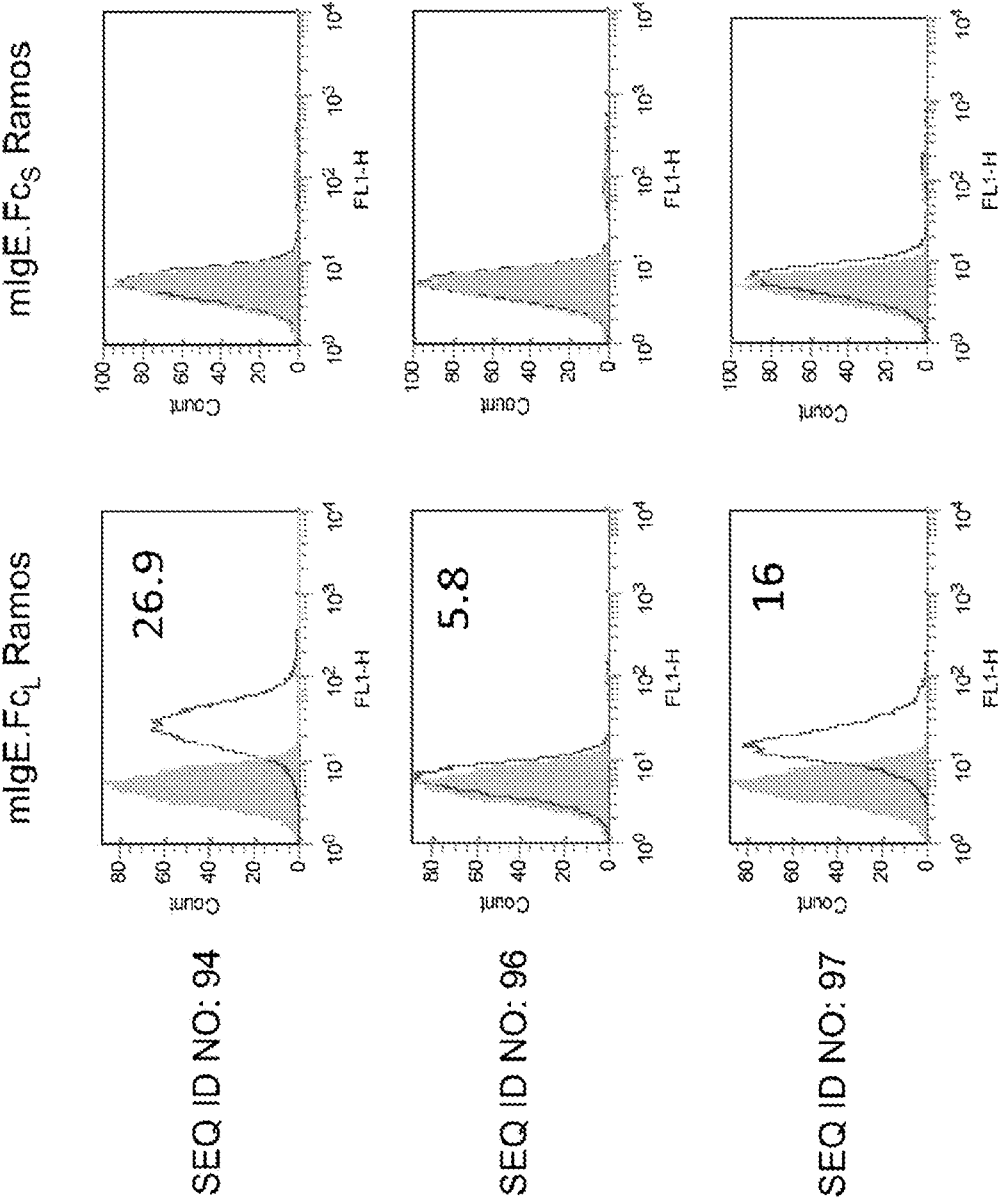
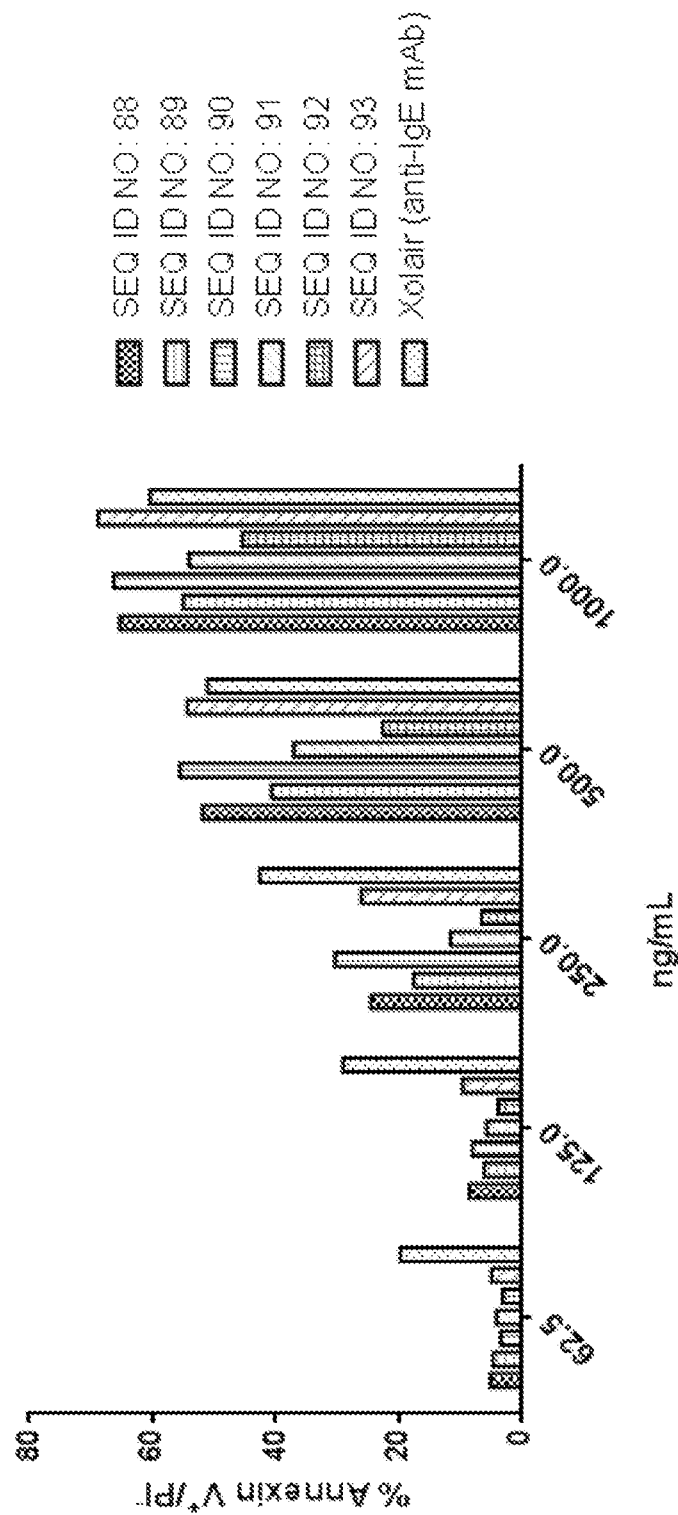


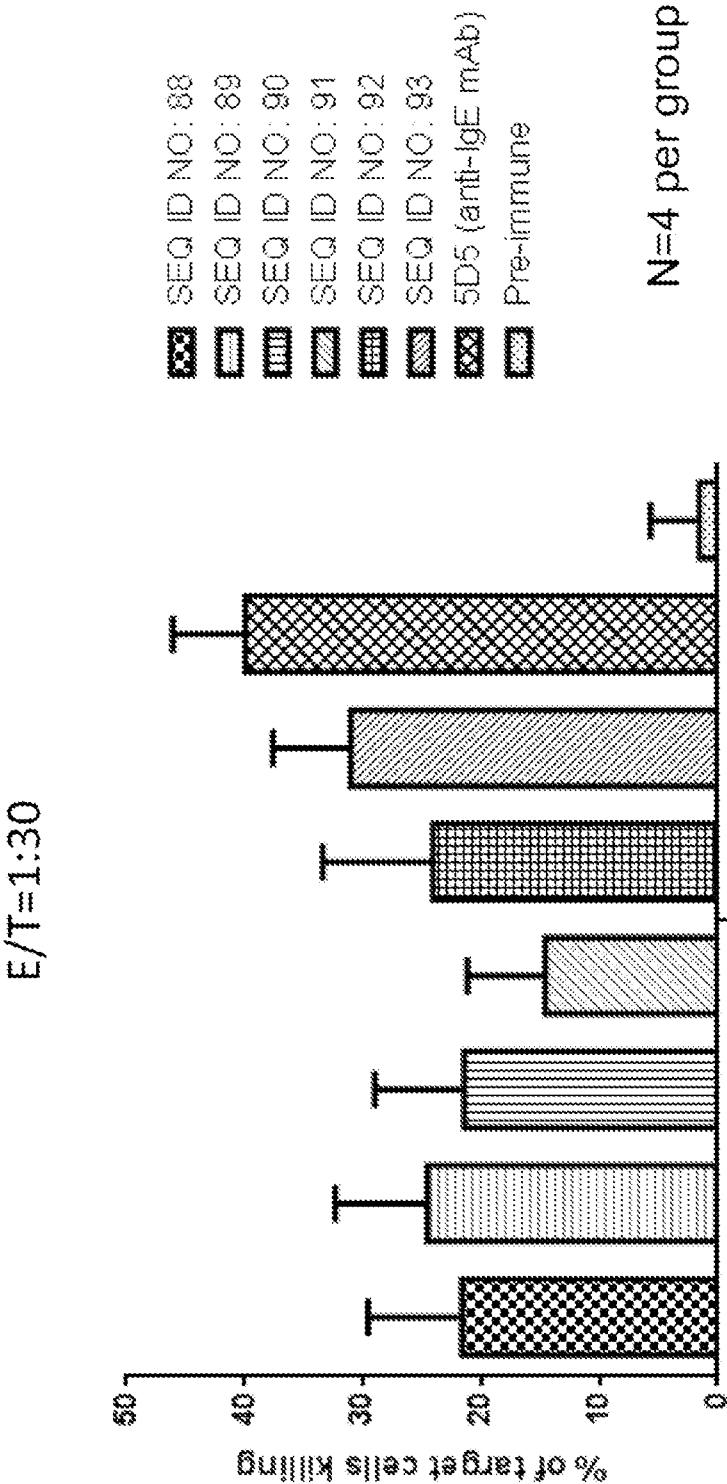
Figure 7



Cell line: mlgE.Fc₁ Ramos
Antibodies: purified guinea pig anti-IgE-EMPD IgG

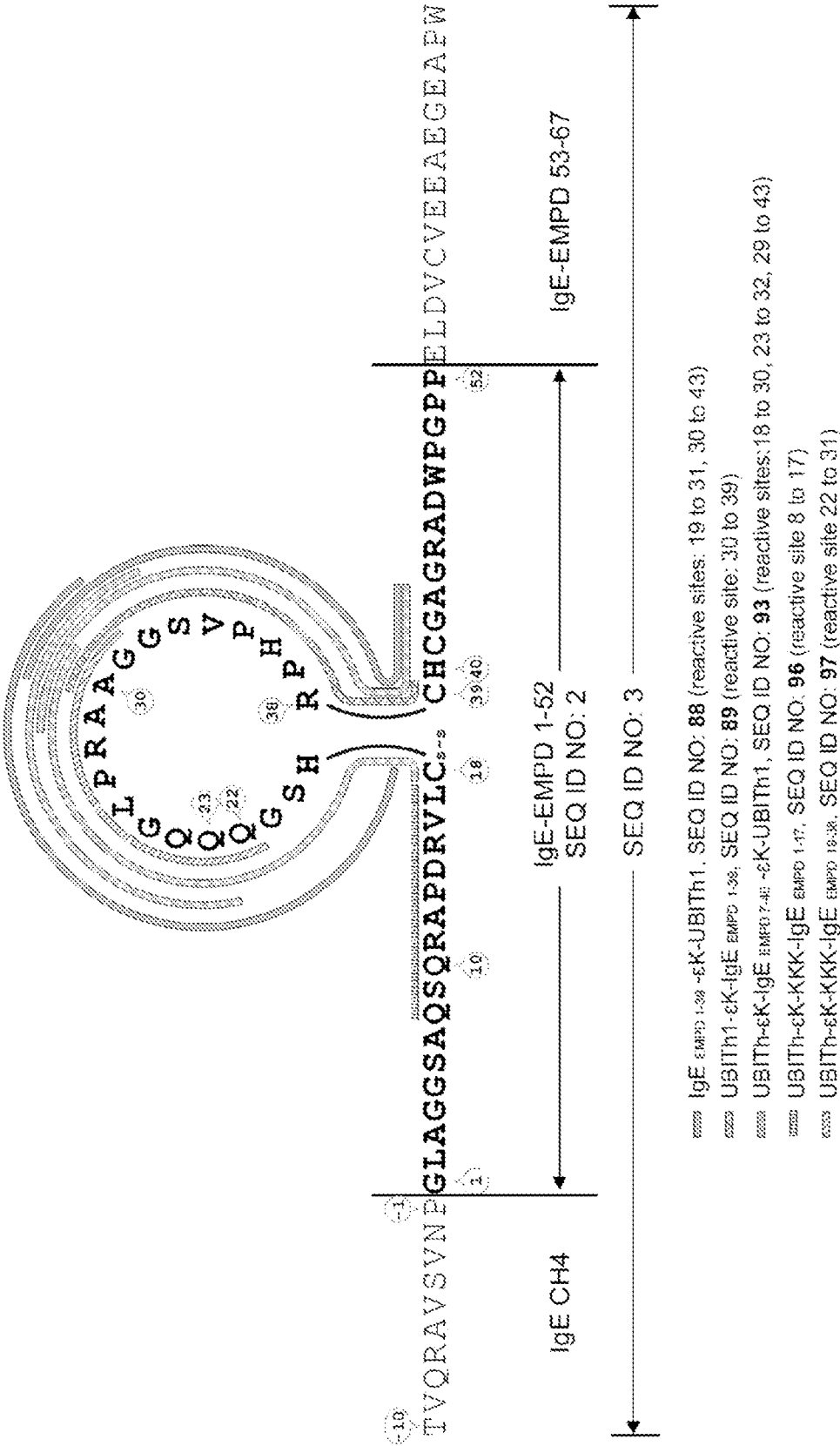
SEQ ID NO:	88	89	90	91	92	93	Xolair
EC ₅₀ (ng/mL)	303.8	345.3	277.5	403.9	536	302	121.4

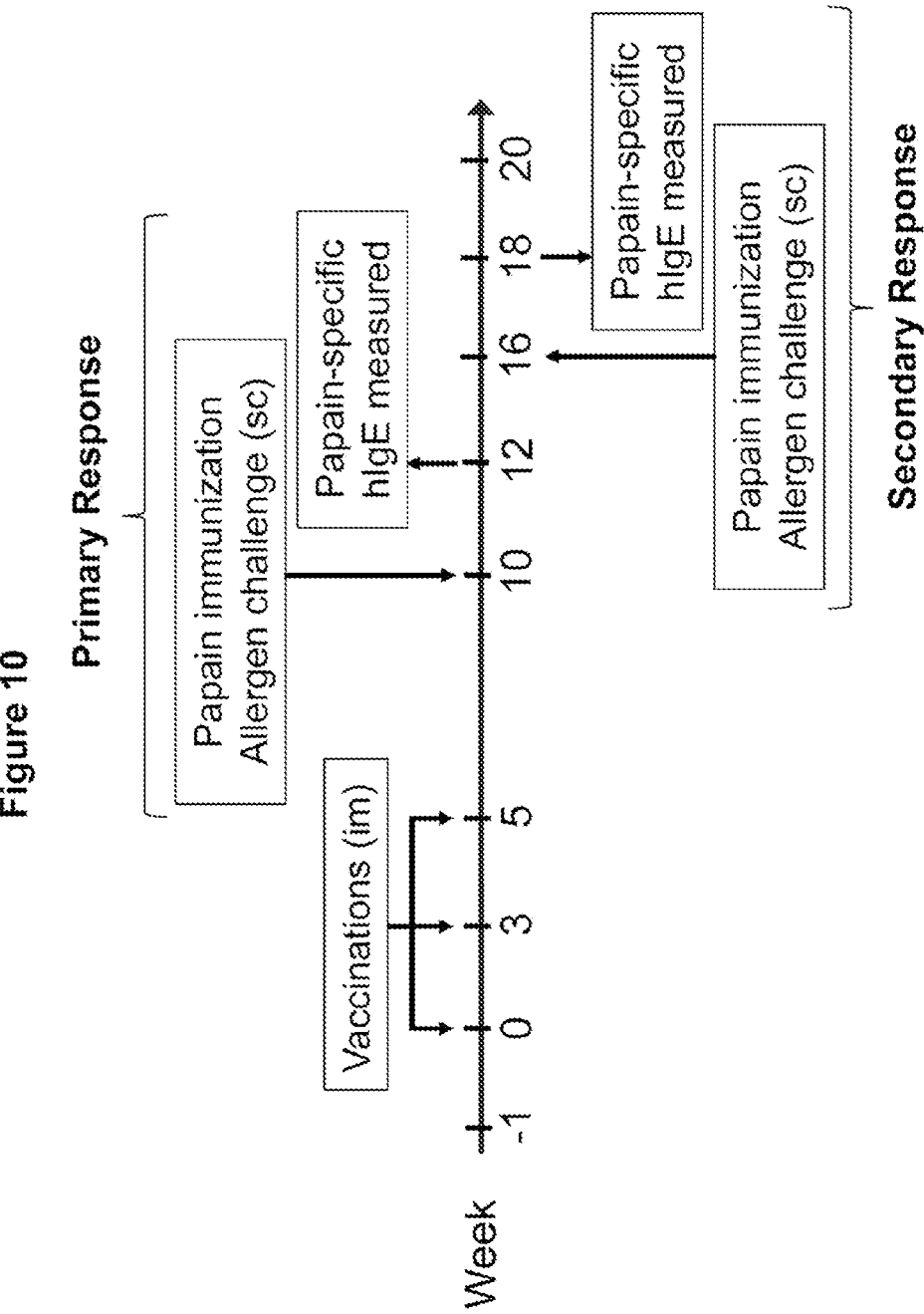
Figure 8



Target cell: mIgE.Fc_γ Ramos cells
Effector cell: IL-2-treated mouse splenic cells
Antibodies: purified guinea pig anti-IgE EMPD IgG at 10 µg/mL

Figure 9





- Animals: F1 offspring (hlgE x Balb/c).
- Groups: Placebo and 3 vaccination groups.
- Vaccine dose: Immunize on weeks 0, 3, and 5 with doses at 9 (low), 18 (medium) or 40 (high) µg per dose or adjuvant placebo by *i.m.* route.
- Allergen: Immunize on week 10 and 16 with 50 µg papain/TiterMax Gold adjuvant by subcutaneous route.

Figure 11

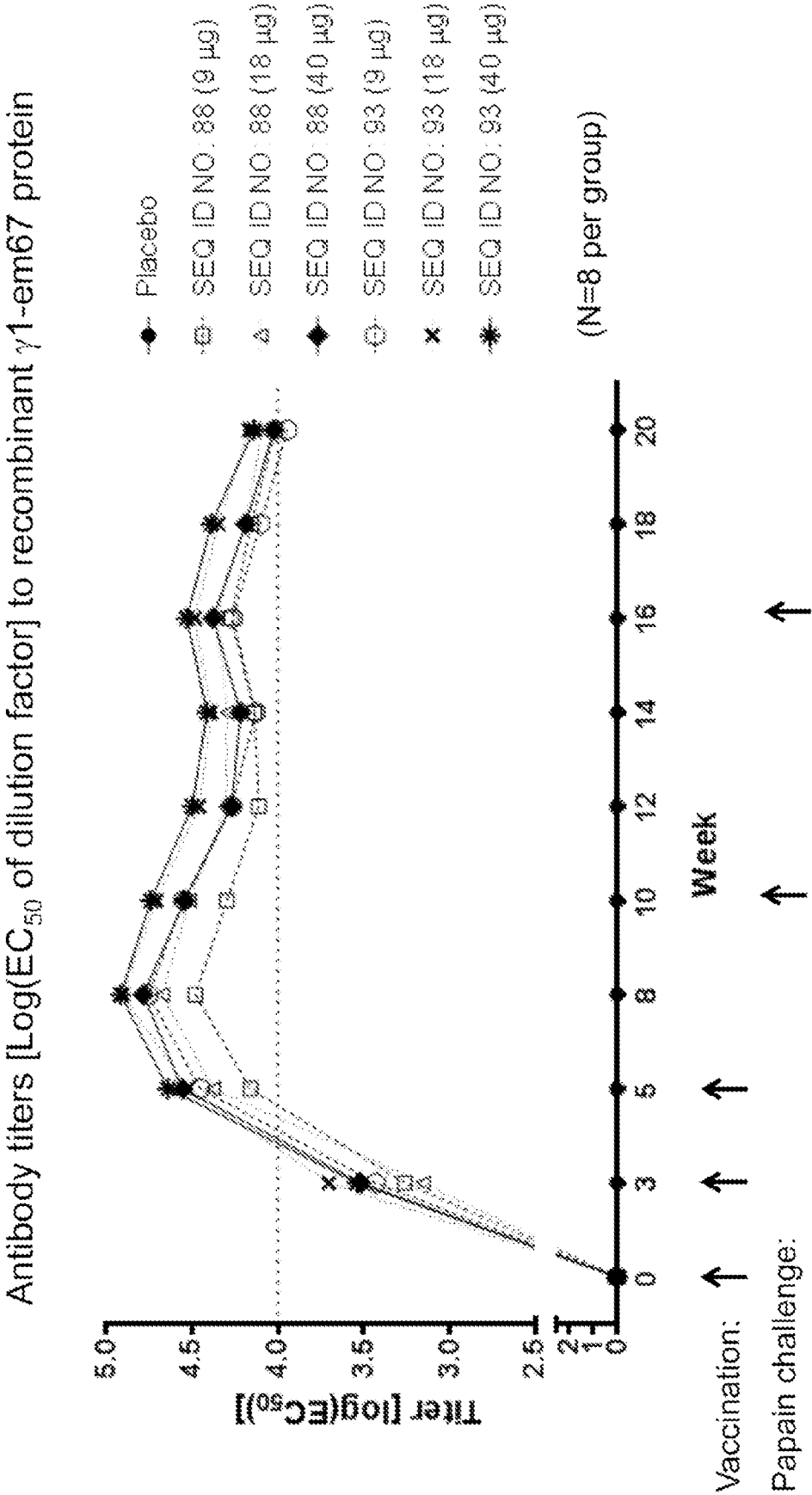


Figure 12

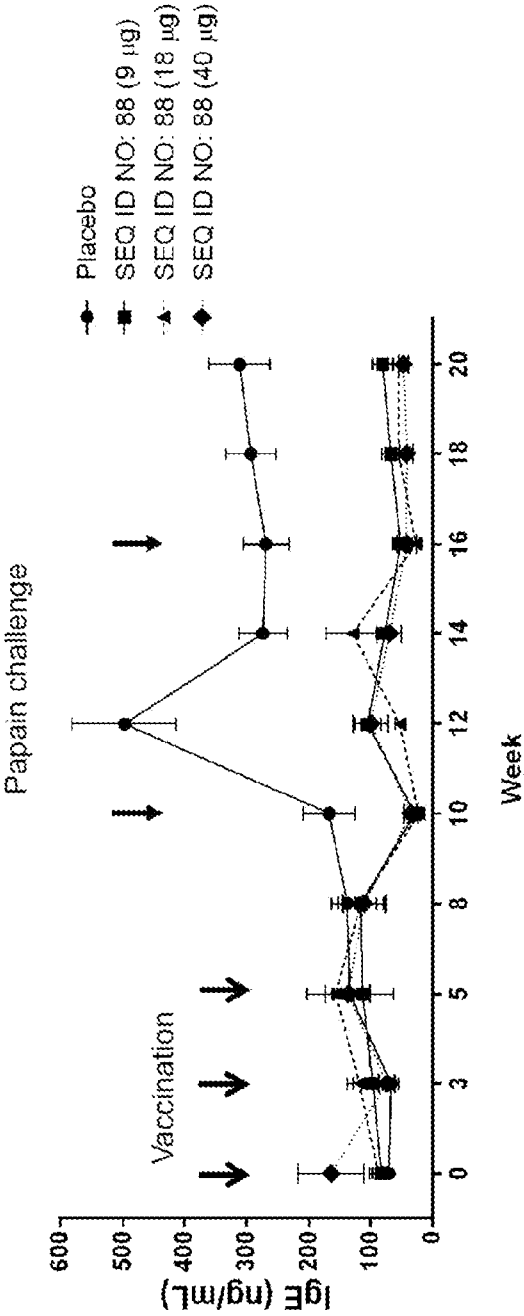
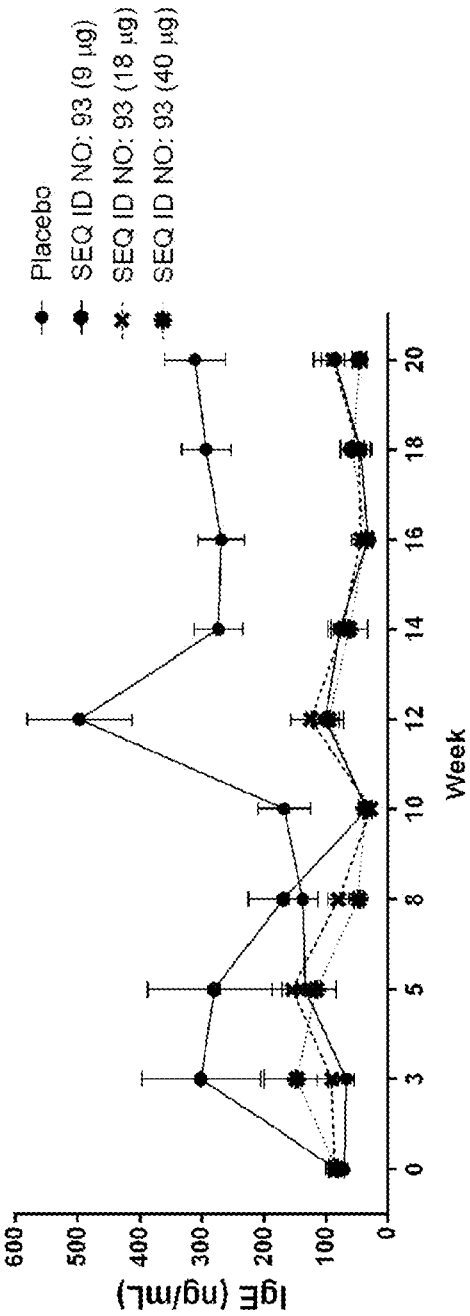


Figure 13

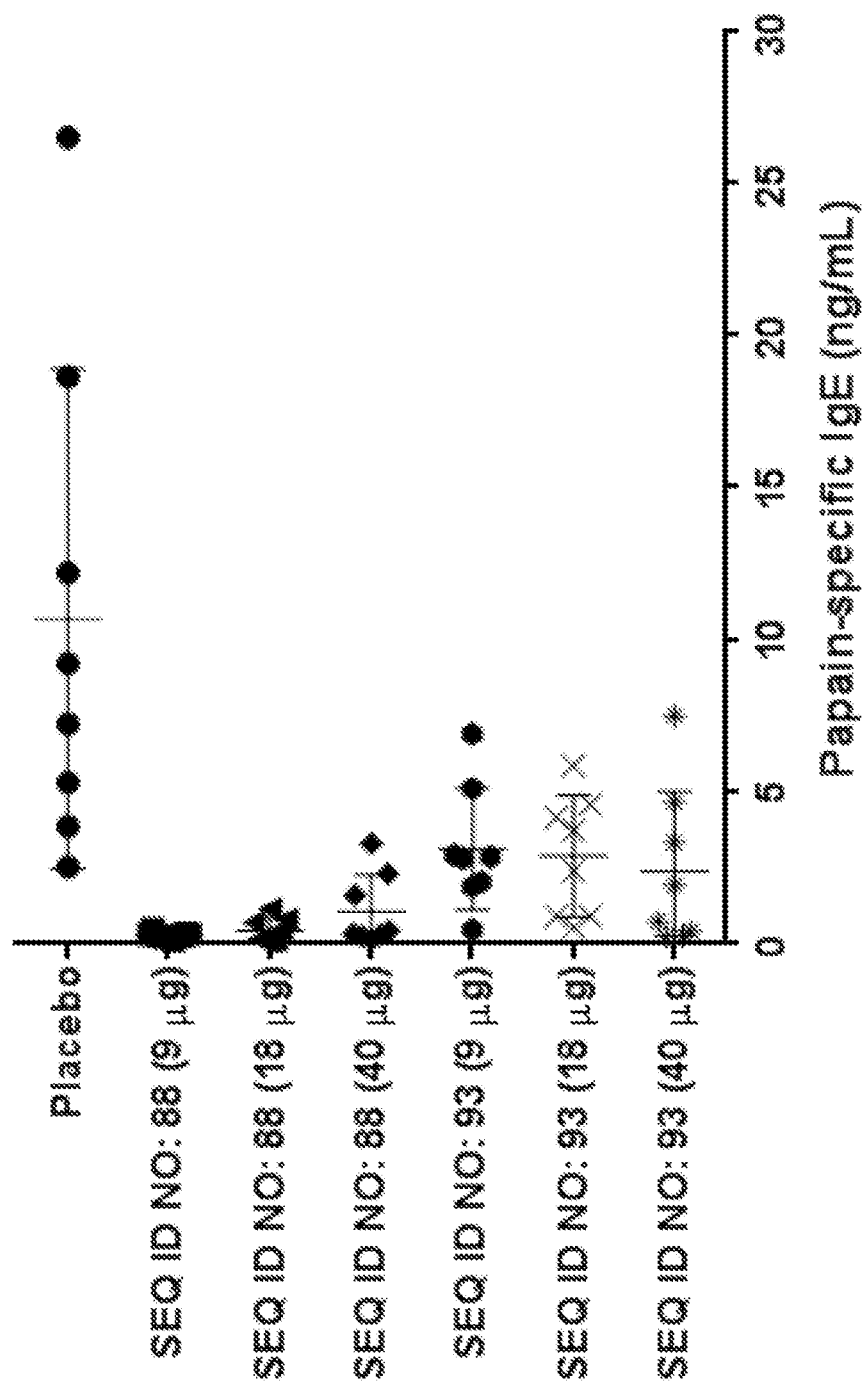


Figure 14

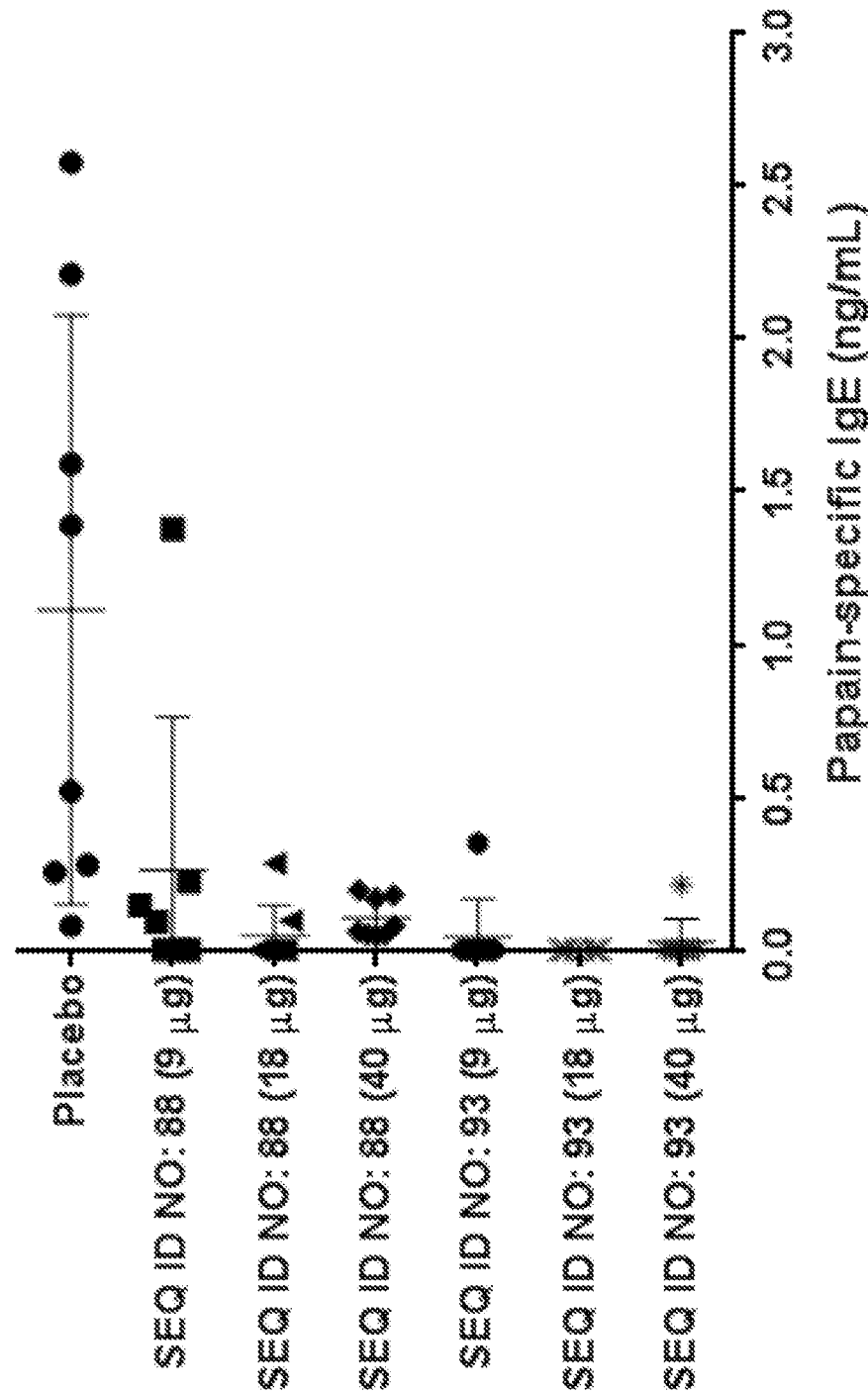
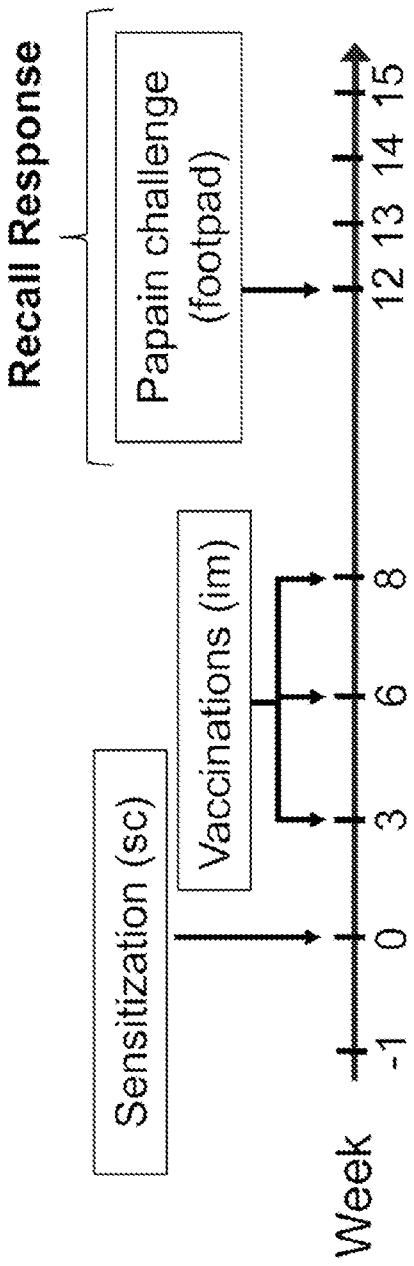


Figure 15
Experimental Protocol for Efficacy Evaluation of IgE-EMPD Vaccine Formulations On Sensitization/Recall Responses in Human IGHE Knockin Hybrid Mice



- Animals: F1 offspring (HuIGHE x Balb/c).
- Groups: Placebo and vaccination groups.
- Vaccine dose: Immunize on weeks 3, 6, and 8 with a dose of 40 µg or adjuvant placebo by *i.m.* route.
- Allergen: Sensitize on week 0 with 50 µg papain/TiterMax Gold adjuvant by subcutaneous route and recall on week 12 with 50 µg papain/PBS solution via footpad.

Figure 16

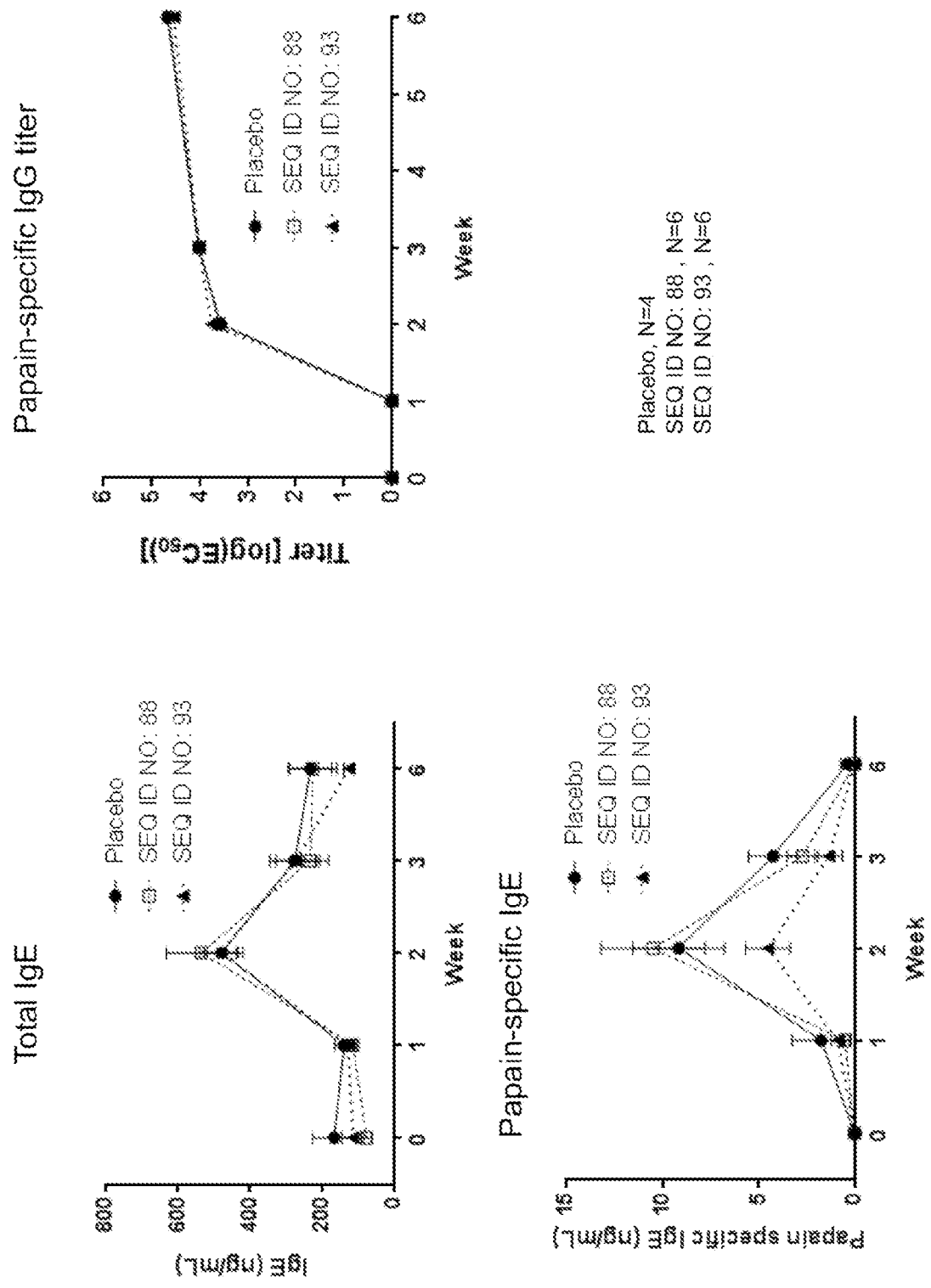


Figure 17

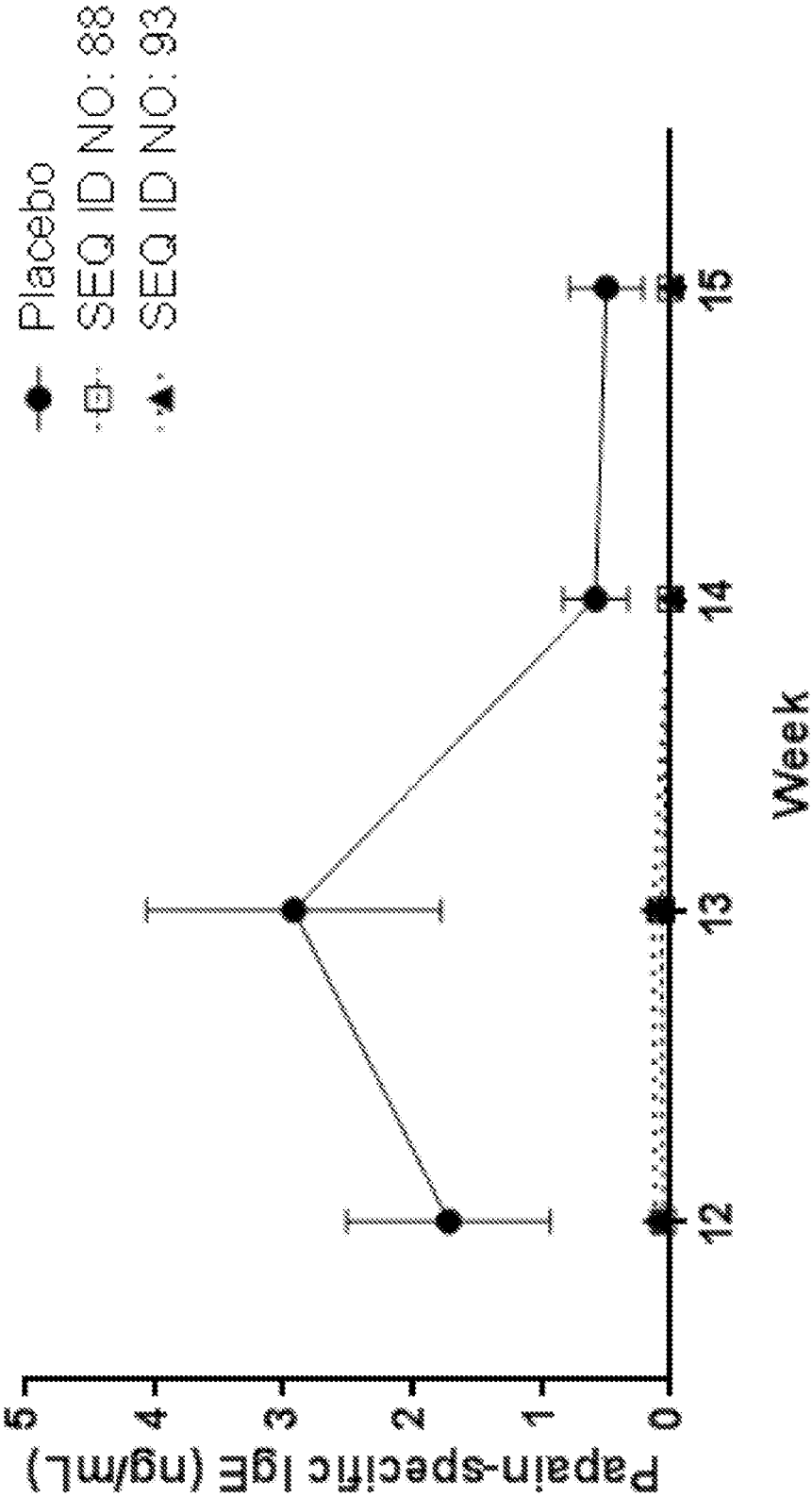


Figure 18A

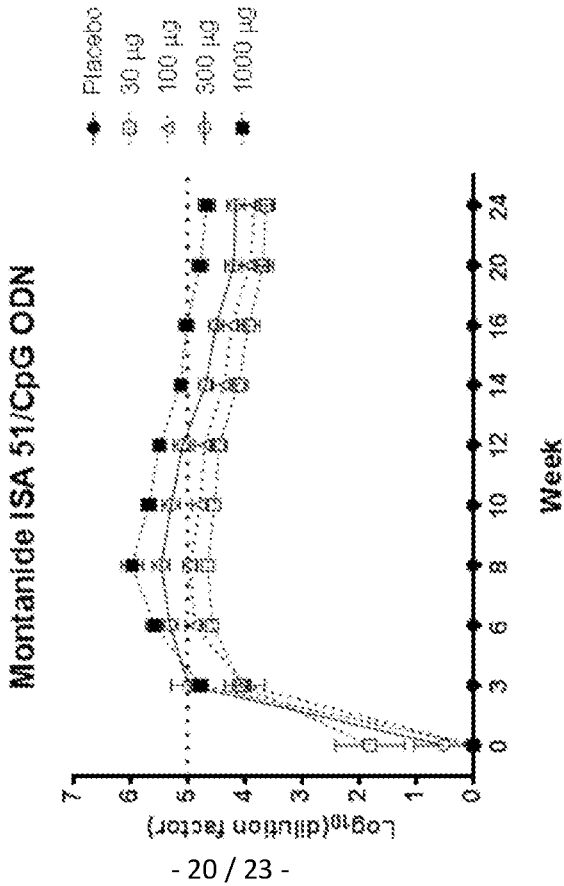


Figure 18B

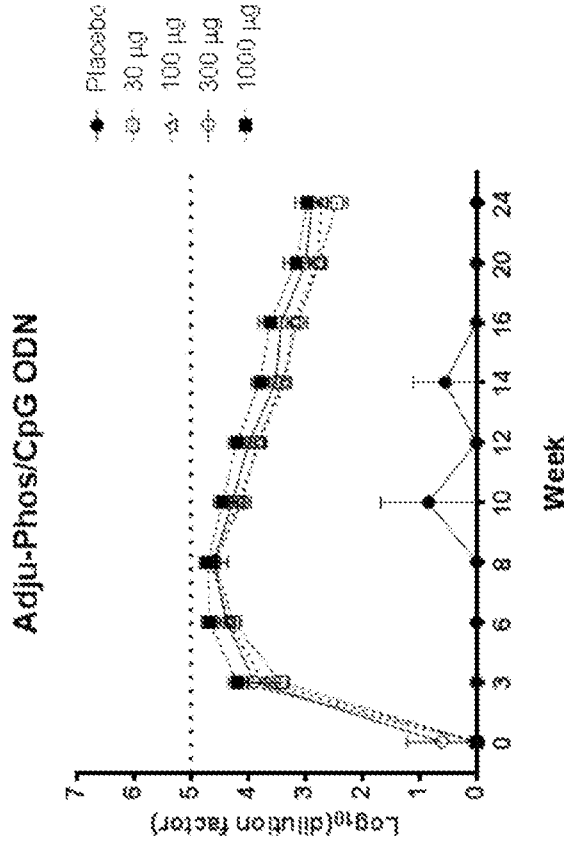


Figure 19

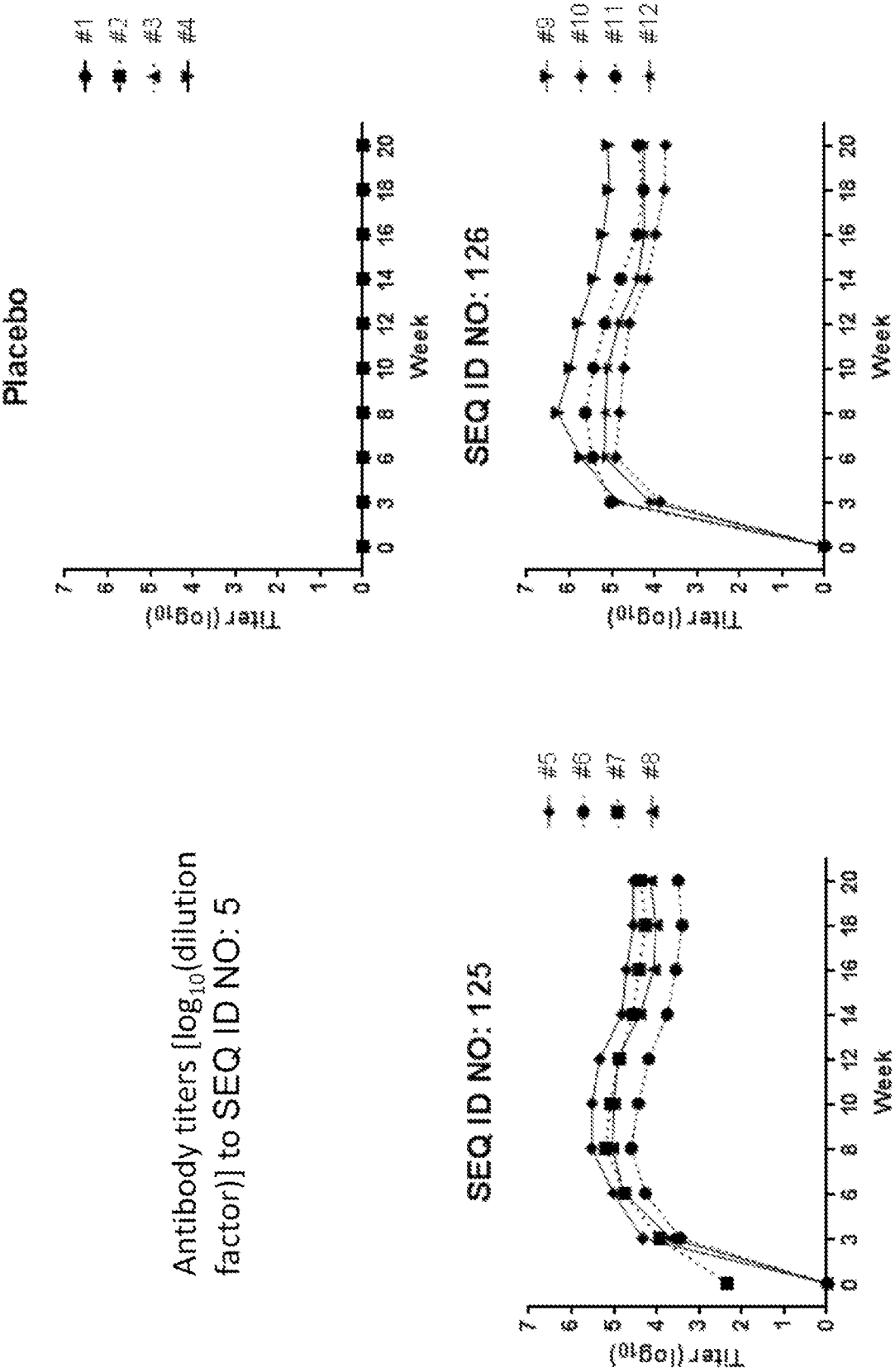


Figure 20

Antibody titers [$\log_{10}$ (dilution factor)] to SEQ ID NO: 5

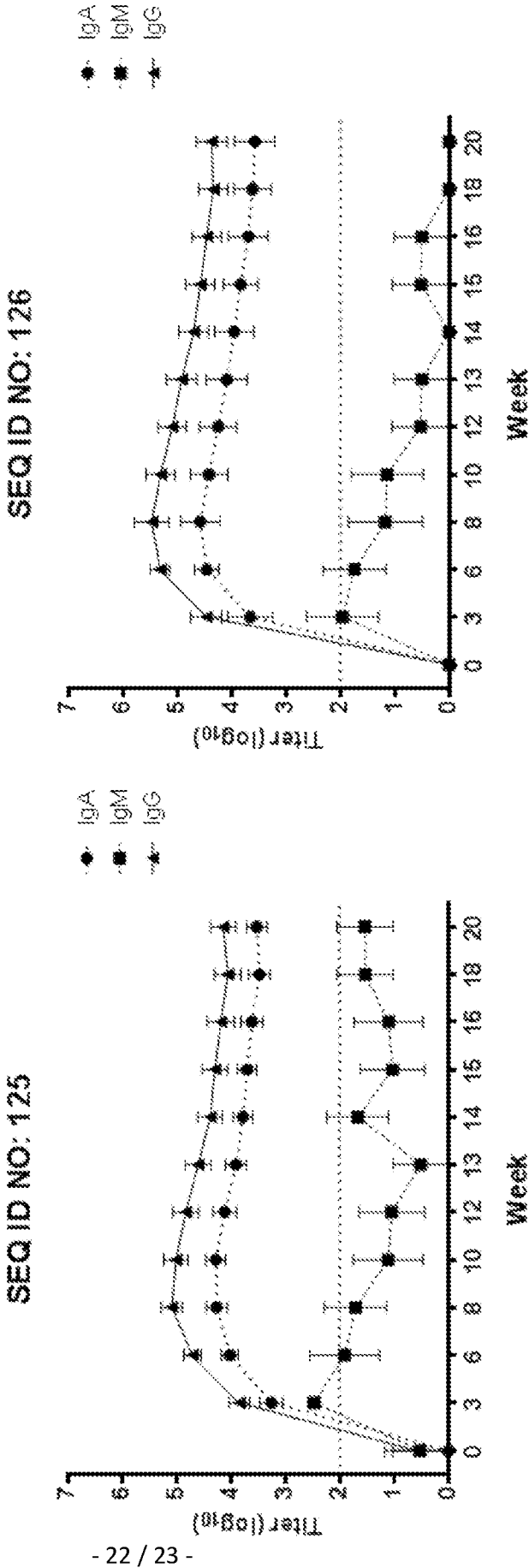


Figure 21

