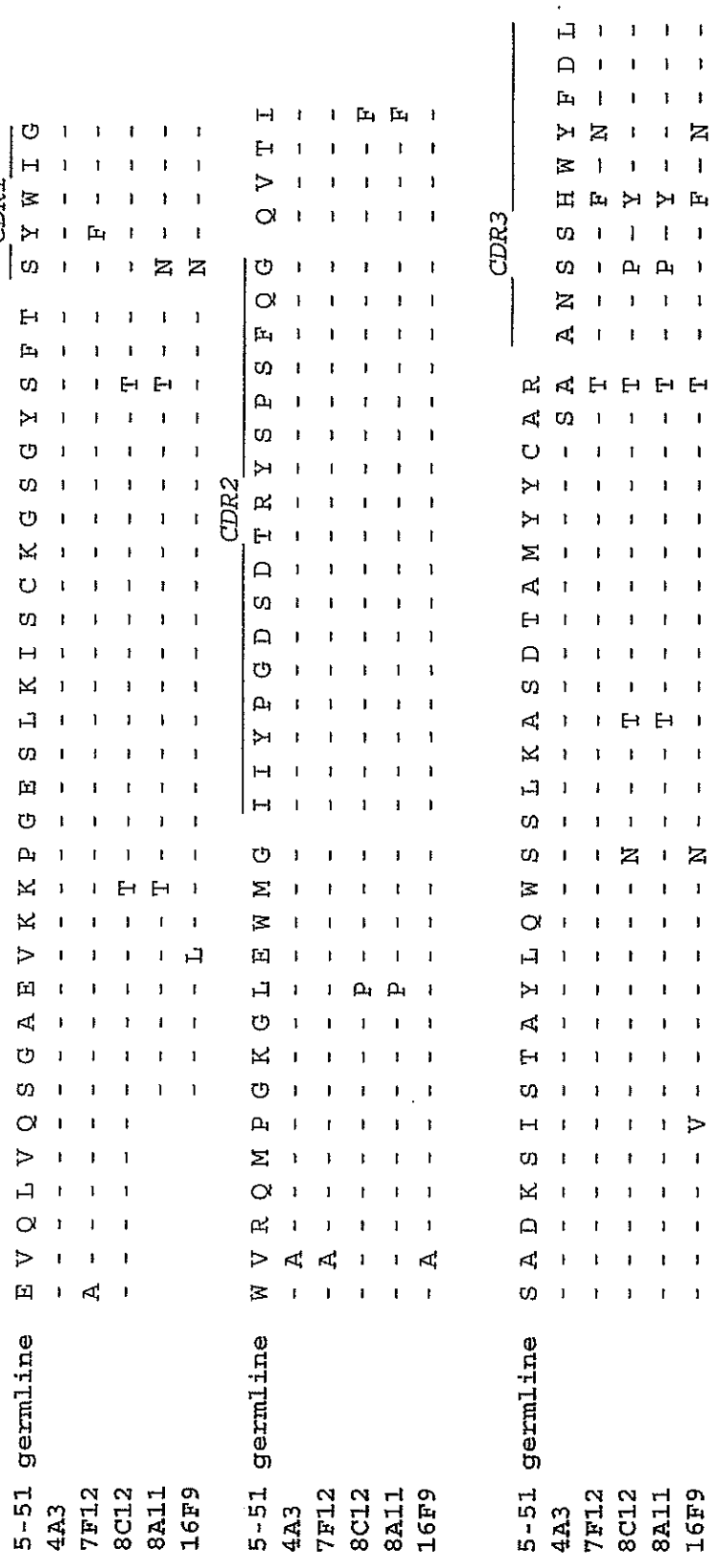

CDR1
CDR2
CDR3
5-51 germline E V Q L V Q S G A E V K K P G E S L K I S C K G S G Y S F T S Y W I G
4A3 -
7F12 A - F - - - - - - - - -
8C12 - - - - - - - - T - - - - - - - - - - - - - - - T - - - - - - - - - - - - - -
8A11 - - - - - - - - T - - - - - - - - - - - - - - - T - - - - N - - - - - - - - -
16F9 - - - - - L - N - - - - - - - - -
5-51 germline W V R Q M P G K G L E W M G I I Y P G D S D T R Y S P S F Q G Q V T I
4A3 - A -
7F12 - A -
8C12 - - - - - - - - P - F
8A11 - - - - - - - - P - F
16F9 - A -
5-51 germline S A D K S I S T A Y L Q W S S L K A S D T A M Y Y C A R A N S S H W Y F D L
4A3 - S A - - - - - - - - - - - - -
7F12 - T - - - - F - N - - - - - -
8C12 - - - - - - - - - - N - - - - T - - - - - - - - T - - P - Y - - - - - - - -
8A11 - - - - - - - - - - - - - - - T - - - - - - - - T - - P - Y - - - - - - - -
16F9 - - - - - - V - - - - - - - N - - - - - - - - - T - - - - F - N - - - - - -
4A3 W G R G T L V T V S S
7F12 - - - - - - - - - - -
8C12 - - - - - - - - - - -
8A11 - - - - - - - - - - -
16F9 - - - - - - - - - - -

Fig. 1

```
                                                              ____CDR1____
L6 germline:   E I V L T Q S P A T L S L S P G E R A T L S C  R A S Q S V S S Y L A
4A3:           - - - - - - - - - - - - - - - - - - - - - - -  - - - - - - - - - - -
7F12:          - - - - - - - - - - - - - - - - - - - - - - -  - - - - - - - - - - -
8C12:          - - - - - - - - - - - - - - - - - - - - - - -  - - - - - - - - - - -

                                               ___CDR2___
L6 germline:   W Y Q Q K P G Q A P R L L I Y  D A S N R A T  G I P A R F S G S G S
4A3:           - F - - - - - - - - - - - - -  - - - - - - -  - - - - - - - - - - -
7F12:          - - - - - - - - - - - - - - -  - - - - - - -  - - - - - - - - - - -
8C12:          - - - - - - - - - - - - - - -  - - - - - - -  - - - - - - - - - - -

L6 germline:   G T D F T L T I S S L E P E D F A V Y Y C
4A3:           - - - - - - - - - - - - - - - - - - - - -
7F12:          - - - - - - - - - - - - - - - - - - - - -
8C12:          - - - - - - - - - - - - - - - - - - - - -

               _____CDR3_____
L6 germline:   Q Q R S N W
4A3:           - - - - - - - L M Y T  F G Q G T K L E I K
7F12:          - - - - - - - - - - -  - - - - - - - - - -
8C12:          - - - - D - - - - - -  - - - - - - - - - -
```

Fig. 2

```
                                                                       ______CDR1______
VK 04/014
germline:         D I Q L T Q S P S S L S A S V G D R V T I T C   R V S Q G I S S Y L N
8A11:                           - - - - - - - - - - S - - - - -   - - - - - - - - - - -
16F9:                           - - - - - - - - - - - - - - - -   - - - - - - - - - - -

                                                  ___CDR2___
014 germline:     W Y R Q K P G K V P K L L I Y   S A S N L Q S   G V P S R F S G S G S
8A11:             - - - - - - - - - - - - - - -   - - - - - - -   - - - - - - - - - - -
16F9:             - - - - - - - - - - - - - M -   - - - - - - -   - - - - - - - - - - -

                                                                   ____CDR3____
014 germline:     G T D F T L T I S S L Q P E D V A T Y Y G   Q R T Y N A P F T
8A11:             - - - - - - - - N - - - - - - - - - - - -   - - - - - - - - - F G P G
16F9:             - - - - - - - - - - - - - - - - - - - - -   - - - - - - - - - - - - -

8A11:             T K V D I K
16F9:             - - - - - -
```

Fig. 3

```
Anti-PMSA 1C3 VH
   V segment:      3-30.3
   D segment:      undetermined
   J segment:      JH6b

     Q   V   Q   L   V   E   S   G   G   G   V   V   Q   P   G   R   S   L
1    CAG GTG CAA CTG GTG GAG TCT GGG GGA GGC GTG GTC CAG CCT GGG AGG TCC CTG

                                                         CDR1
                                                     ~~~~~~~~~~~~~~~~~~~
     R   L   S   C   A   A   S   G   F   T   F   S   S   Y   A   M   H   W
55   AGA CTC TCC TGT GCA GCC TCT GGA TTC ACC TTC AGT AGC TAT GCT ATG CAC TGG

                                                             CDR2
                                                         ~~~~~~~~~~~~~~~~~~~
     V   R   Q   A   P   G   K   G   L   E   W   V   A   V   I   S   Y   D
109  GTC CGC CAG GCT CCA GGC AAG GGG CTG GAG TGG GTG GCA GTT ATA TCA TAT GAT

                 CDR2
     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
     G   N   N   K   Y   Y   A   D   S   V   K   G   R   F   T   I   S   R
163  GGA AAC AAT AAA TAC TAC GCA GAC TCC GTG AAG GGC CGA TTC ACC ATC TCC AGA

     D   N   S   K   N   T   L   Y   L   Q   M   N   S   L   R   A   E   D
217  GAC AAT TCC AAG AAC ACG CTG TAT CTG CAA ATG AAC AGC CTG AGA GCT GAG GAC

                                                 CDR3
                                 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
     T   A   V   Y   Y   C   A   R   A   V   P   W   G   S   R   Y   Y   Y
271  ACG GCT GTG TAT TAC TGT GCG AGA GCC GTC CCC TGG GGA TCG AGG TAC TAC TAC
                                                                |
                                                                └──> JH6b
         CDR3
     ~~~~~~~~~~~~~~~~~~~
     Y   G   M   D   V   W   G   Q   G   T   T   V   T   V   S   S
325  TAC GGT ATG GAC GTC TGG GGC CAA GGG ACC ACG GTC ACC GTC TCC TCA
```

Fig. 4A

Anti-PSMA 1C3 VK
V segment: L18
J segment: JK4

```
     A   I   Q   L   T   Q   S   P   S   S   L   S   A   S   V   G   D   R
1    GCC ATC CAG TTG ACC CAG TCT CCA TCC TCC CTG TCT GCA TCT GTA GGA GAC AGA

                                CDR1
                            ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
     V   T   I   T   C   R   A   S   Q   G   I   S   S   A   L   A   W   Y
55   GTC ACC ATC ACT TGC CGG GCA AGT CAG GGC ATT AGC AGT GCT TTA GCC TGG TAT

                                                            CDR2
                                                        ~~~~~~~~~~~~~~~~~~~~
     Q   Q   K   S   G   K   A   P   K   L   L   I   F   D   A   S   S   L
109  CAG CAG AAA TCA GGG AAA GCT CCT AAG CTC CTG ATC TTT GAT GCC TCC AGT TTG

     CDR2
     ~~~~~~~~
     E   S   G   V   P   S   R   F   S   G   S   G   S   G   T   D   F   T
163  GAA AGT GGG GTC CCA TCA AGG TTC AGC GGC AGT GGA TCT GGG ACA GAT TTC ACT

                                                                CDR3
                                                            ~~~~~~~~
     L   T   I   S   S   L   Q   P   E   D   F   A   T   Y   Y   C   Q   Q
217  CTC ACC ATC AGC AGC CTG CAG CCT GAA GAT TTT GCA ACT TAT TAC TGT CAA CAG

              CDR3
     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~
     F   N   S   Y   P   L   T   F   G   G   G   T   K   V   E   I   K
271  TTT AAC AGT TAT CCT CTC ACT TTC GGC GGA GGG ACC AAG GTG GAG ATC AAA
                         └──►JK4
```

Fig. 4B

```
Anti-PMSA 2A10 VH
     V segment:      5-51
     D segment:      7-27
     J segment:      JH2

      E   V   Q   L   V   Q   S   G   A   E   V   K   K   P   G   E   S   L
1    GAG GTG CAG CTG GTG CAG TCT GGA GCA GAG GTG AAA AAG CCC GGG GAG TCT CTG

                                                          CDR1
                                                  ~~~~~~~~~~~~~~~~~~~
      K   I   S   C   K   G   S   G   Y   S   F   T   S   N   W   I   G   W
55   AAG ATC TCC TGT AAG GGT TCT GGA TAC AGC TTT ACC AGT AAC TGG ATC GGC TGG

                                                              CDR2
                                                      ~~~~~~~~~~~~~~~~~~~
      V   R   Q   M   P   G   K   G   L   E   W   M   G   I   I   Y   P   G
109  GTG CGC CAG ATG CCC GGG AAA GGC CTG GAG TGG ATG GGG ATC ATC TAT CCT GGT

                     CDR2
     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      D   S   D   T   R   Y   S   P   S   F   Q   G   Q   V   T   I   S   A
163  GAC TCT GAT ACC AGA TAC AGC CCG TCC TTC CAA GGC CAG GTC ACC ATC TCA GCC

      D   K   S   I   S   T   A   Y   L   Q   W   S   S   L   K   A   S   D
217  GAC AAG TCC ATC AGC ACC GCC TAC CTG CAG TGG AGC AGC CTG AAG GCC TCG GAC

                                                CDR3
                                     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      T   A   M   Y   Y   C   A   R   Q   T   G   F   L   W   S   S   D   L
271  ACC GCC ATG TAT TAC TGT GCG AGG CAA ACT GGT TTC CTC TGG TCC TCC GAT CTC
                                                      └──► JH2

      W   G   R   G   T   L   V   T   V   S   S
325  TGG GGC CGT GGC ACC CTG GTC ACT GTC TCC TCA
```

Fig. 5A

Anti-PSMA 2A10 VK

V segment: L18
J segment: JK4

```
      A   I   Q   L   T   Q   S   P   S   S   L   S   A   S   V   G   D   R
1     GCC ATC CAG TTG ACC CAG TCT CCA TCC TCC CTG TCT GCA TCT GTA GGA GAC AGA

                                CDR1
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      V   T   I   T   C   R   A   S   Q   D   I   S   S   A   L   A   W   Y
55    GTC ACC ATC ACT TGC CGG GCA AGT CAG GAC ATT AGC AGT GCT TTA GCC TGG TAT

                                                        CDR2
                                                    ~~~~~~~~~~~~~~~~~~~~
      Q   Q   K   P   G   K   A   P   K   L   L   I   Y   D   A   S   S   L
109   CAA CAG AAA CCA GGG AAA GCT CCT AAG CTC CTG ATC TAT GAT GCC TCC AGT TTG

        CDR2
      ~~~~~~~~
      E   S   G   V   P   S   R   F   S   G   Y   G   S   G   T   D   F   T
163   GAA AGT GGG GTC CCA TCA AGG TTC AGC GGC TAT GGA TCT GGG ACA GAT TTC ACT

                                                                CDR3
                                                            ~~~~~~~~
      L   T   I   N   S   L   Q   P   E   D   F   A   T   Y   Y   C   Q   Q
217   CTC ACC ATC AAC AGC CTG CAG CCT GAA GAT TTT GCA ACT TAT TAC TGT CAA CAG

              CDR3
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      F   N   S   Y   P   L   T   F   G   G   G   T   K   V   E   I   K
271   TTT AAT AGT TAC CCG CTC ACT TTC GGC GGA GGG ACC AAG GTG GAG ATC AAA
```

Fig. 5B

```
Anti-PMSA 2C6 VH
     V segment:        5-51
     D segment:        6-13
     J segment:        JH4b

         E   V   Q   L   V   Q   S   G   S   E   V   K   K   P   G   E   S   L
  1     GAG GTG CAG CTG GTG CAG TCT GGA TCA GAG GTG AAA AAG CCC GGG GAG TCT CTG

                                                                 CDR1
                                                       ~~~~~~~~~~~~~~~~~~~
         K   I   S   C   K   G   S   G   Y   S   F   T   N   Y   W   I   G   W
 55     AAG ATC TCC TGT AAG GGT TCT GGA TAC AGC TTT ACC AAC TAC TGG ATC GGC TGG

                                                                     CDR2
                                                           ~~~~~~~~~~~~~~~~~~~
         V   R   Q   M   P   G   K   G   L   E   W   M   G   I   I   Y   P   G
109     GTG CGC CAG ATG CCC GGG AAA GGC CTG GAG TGG ATG GGG ATC ATC TAT CCT GGT

                    CDR2
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
         D   S   D   T   R   Y   S   P   S   F   Q   G   Q   V   T   I   S   A
163     GAC TCT GAT ACC AGA TAC AGC CCG TCC TTC CAA GGC CAG GTC ACC ATC TCA GCC

         D   K   S   I   S   T   A   Y   L   Q   W   S   S   L   K   A   S   D
217     GAC AAG TCC ATC AGC ACC GCC TAT CTG CAG TGG AGC AGC CTG AAG GCC TCG GAC

                                                       CDR3
                                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
         T   A   M   Y   Y   C   A   S   P   G   Y   T   S   S   W   T   S   F
271     ACC GCC ATG TAT TAC TGT GCG AGT CCC GGG TAT ACC AGC AGT TGG ACT TCT TTT

          CDR3
        ~~~~~~~
         D   Y   W   G   Q   G   T   L   V   T   V   S   S
325     GAC TAC TGG GGC CAG GGA ACC CTG GTC ACC GTC TCC TCA
```

Fig. 6A

Anti-PSMA 2C6 VK

V segment: L6
J segment: JK3

```
     E   I   V   L   T   Q   S   P   A   T   L   S   L   S   P   G   E   R
1    GAA ATT GTG TTG ACA CAG TCT CCA GCC ACC CTG TCT TTG TCT CCA GGG GAA AGA

                                CDR1
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
     A   T   L   S   C   R   A   S   Q   S   V   S   S   Y   L   A   W   Y
55   GCC ACC CTC TCC TGC AGG GCC AGT CAG AGT GTT AGC AGC TAC TTA GCC TGG TAC

                                                        CDR2
                                                ~~~~~~~~~~~~~~~~~~~~
     Q   Q   K   P   G   Q   A   P   R   L   L   I   Y   D   A   S   N   R
109  CAA CAG AAA CCT GGC CAG GCT CCC AGG CTC CTC ATC TAT GAT GCA TCC AAC AGG

       CDR2
     ~~~~~~~
     A   T   G   I   P   A   R   F   S   G   S   G   S   G   T   D   F   T
163  GCC ACT GGC ATC CCA GCC AGG TTC AGT GGC AGT GGG TCT GGG ACA GAC TTC ACT

                                                                CDR3
                                                            ~~~~~~~
     L   T   I   S   S   L   E   P   E   D   F   A   V   Y   Y   C   Q   Q
217  CTC ACC ATC AGC AGC CTA GAG CCT GAA GAT TTT GCA GTT TAT TAC TGT CAG CAG

             CDR3
     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
     R   S   N   W   P   L   F   T   F   G   P   G   T   K   V   D   I   K
271  CGT AGC AAC TGG CCC CTA TTC ACT TTC GGC CCT GGG ACC AAA GTG GAT ATC AAA
```

Fig. 6B

```
Anti-PMSA 2F5 VH
     V segment:      5-51
     D segment:      7-27
     J segment:      JH2

      E   V   Q   L   V   Q   S   G   A   E   V   K   K   P   G   E   S   L
1    GAG GTG CAG CTG GTG CAG TCT GGA GCA GAG GTG AAA AAG CCC GGG GAG TCT CTG

                                                             CDR1
                                                        ~~~~~~~~~~~~~~~~~~~
      K   I   S   C   K   G   S   G   Y   S   F   T   S   N   W   I   G   W
55   AAG ATC TCC TGT AAG GGT TCT GGA TAC AGT TTT ACC AGC AAC TGG ATC GGC TGG

                                                                 CDR2
                                                            ~~~~~~~~~~~~~~~~~~~
      V   R   Q   M   P   G   K   G   L   E   W   M   G   I   I   Y   P   G
109  GTG CGC CAG ATG CCC GGG AAA GGC CTG GAG TGG ATG GGG ATC ATC TAT CCT GGT

                         CDR2
     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      D   S   D   T   R   Y   S   P   S   F   Q   G   Q   V   T   I   S   A
163  GAC TCT GAT ACC AGA TAC AGC CCG TCC TTC CAA GGC CAG GTC ACC ATC TCA GCC

      D   K   S   I   S   T   A   Y   L   Q   W   N   S   L   K   A   S   D
217  GAC AAG TCC ATC AGC ACC GCC TAC CTG CAG TGG AAC AGC CTG AAG GCC TCG GAC

                                                   CDR3
                                      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      T   A   M   Y   Y   C   A   R   Q   T   G   F   L   W   S   F   D   L
271  ACC GCC ATG TAT TAC TGT GCG AGA CAA ACT GGT TTC CTC TGG TCC TTC GAT CTC
                                                    └──► JH2

      W   G   R   G   T   L   V   T   V   S   S
325  TGG GGC CGT GGC ACC CTG GTC ACT GTC TCC TCA
```

Fig. 7A

Anti-PSMA 2F5 VK
V segment: L18
J segment: JK4

```
      A   I   Q   L   T   Q   S   P   S   S   L   S   A   S   V   G   D   R
1     GCC ATC CAG TTG ACC CAG TCT CCA TCC TCC CTG TCT GCA TCT GTA GGA GAC AGA

                                CDR1
                            ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      V   T   I   T   C   R   A   S   Q   D   I   S   S   A   L   A   W   Y
55    GTC ACC ATC ACT TGC CGG GCA AGT CAG GAC ATT AGC AGT GCT TTA GCC TGG TAT

                                                            CDR2
                                                        ~~~~~~~~~~~~~~~~~~~
      Q   Q   K   P   G   K   A   P   K   L   L   I   Y   D   A   S   S   L
109   CAG CAG AAA CCG GGG AAA GCT CCT AAG CTC CTG ATC TAT GAT GCC TCC AGT TTG

      CDR2
      ~~~~~~~~
      E   S   G   V   P   S   R   F   S   G   S   G   S   G   T   D   F   T
163   GAA AGT GGG GTC CCA TCA AGG TTC AGC GGC AGT GGA TCT GGG ACA GAT TTC ACT

                                                                    CDR3
                                                                ~~~~~~~~
      L   T   I   S   S   L   Q   P   E   D   F   A   T   Y   Y   C   Q   Q
217   CTC ACC ATC AGC AGC CTG CAG CCT GAA GAT TTT GCA ACT TAT TAC TGT CAA CAG

              CDR3
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~
      F   N   S   Y   P   L   T   F   G   G   G   T   K   V   E   I   K
271   TTT AAT AGT TAC CCG CTC ACT TTC GGC GGA GGG ACC AAG GTG GAG ATC AAA
                       └──►JK4

      I   K
325   ATC AAA
```

Fig. 7B

```
                                                                    ___CDR1___
5-51 germline: E V Q L V Q S G A E V K K P G E S L K I S C K G S G Y S F T S Y W I G
2A10 VH:       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - N - - -
2C6 VH:        - - - - - - - - S - - - - - - - - - - - - - - - - - - - - - N - - - -
2F5 VH:        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - N - - -

                                             ____________CDR2____________
5-51 germline: W V R Q M P G K G L E W M G I I Y P G D S D T R Y S P S F Q G Q V T I
2A10 VH:       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
2C6 VH:        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
2F5 VH:        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                                                                  _____CDR3_____
5-51 germline: S A D K S I S T A Y L Q W S S L K A S D T A M Y Y C A R
2A10 VH:       - - - - - - - - - - - - - - - - - - - - - - - - - - - - Q T G F L W S
2C6 VH:        - - - - - - - - - - - - - - - - - - - - - - - - - - - S P G Y T S S W
2F5 VH:        - - - - - - - - - - - - - N - - - - - - - - - - - - - - - - - - - - -

               __CDR3__
2A10 VH:       S     D L W G R G T L V T V S S (JH2)
2C6 VH:        T S F - Y - - Q - - - - - - - - (JH4b)
2F5 VH:        F     - - - - - - - - - - - - - (JH2)
```

Fig. 8

```
                                                                                  CDR1
3-30.3 germline:  Q V Q L V E S G G G V V Q P G R S L R L S C A A S G F T F S S Y A M H W V R Q
1C3 VH:           - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                                          CDR2
3-30.3 germline:  A P G K G L E W V A V I S Y D G S N K Y Y A D S V K G R F T I S R D N S K N T
1C3 VH:           - - - - - - - - - - - - - - - - N - - - - - - - - - - - - - - - - - - - - - -

                                                            CDR3
3-30.3 germline:  L Y L Q M N S L R A E D T A V Y Y C A R
JH6b germline:                                                        Y Y Y Y Y G M D V W G Q G
1C3 VH:           - - - - - - - - - - - - - - - - - - - - A V P W G S R - - - - - - - - - - - -

JH6b germline:    T T V T V S S
1C3 VH:           - - - - - - -(JH6b)
```

Fig. 9

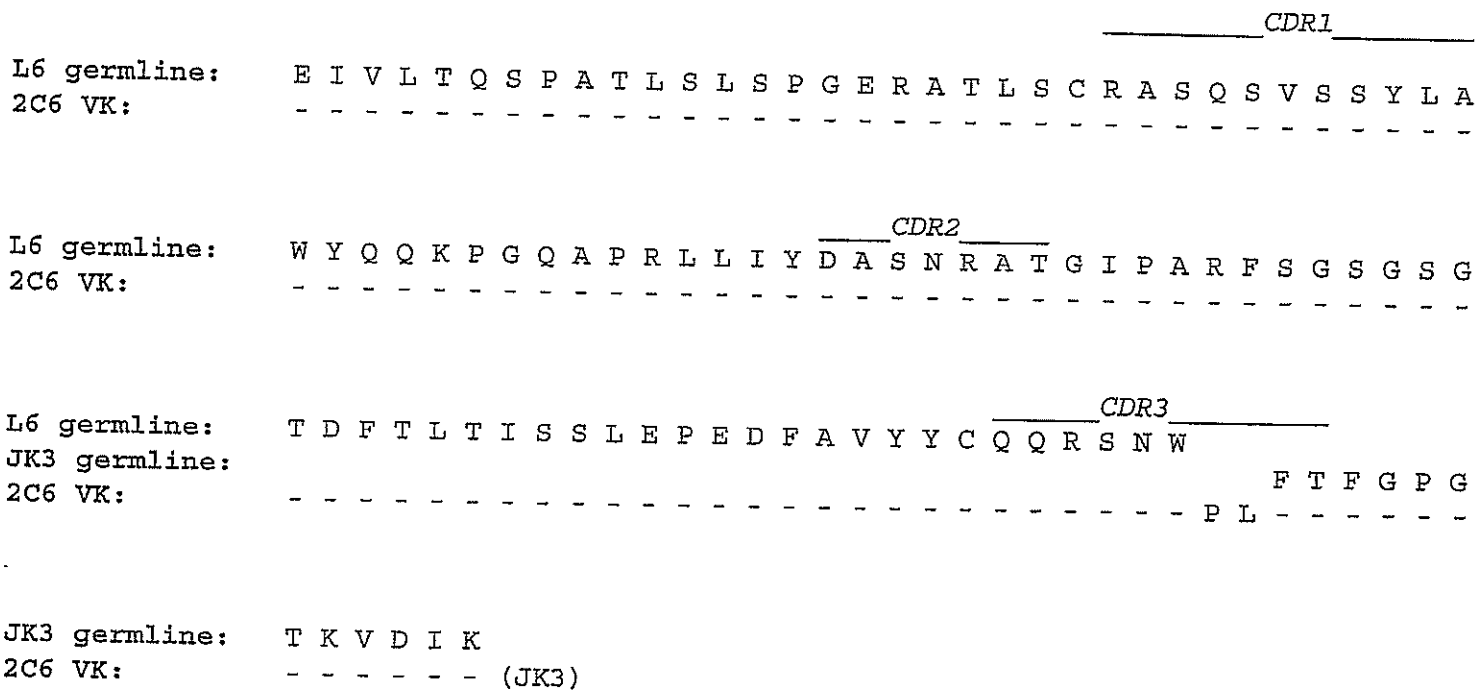

CDR1
L6 germline: E I V L T Q S P A T L S L S P G E R A T L S C R A S Q S V S S Y L A
2C6 VK: -
CDR2
L6 germline: W Y Q Q K P G Q A P R L L I Y D A S N R A T G I P A R F S G S G S G
2C6 VK: -
CDR3
L6 germline: T D F T L T I S S L E P E D F A V Y Y C Q Q R S N W
JK3 germline: F T F G P G
2C6 VK: - P L - - - - - -
JK3 germline: T K V D I K
2C6 VK: - - - - - - (JK3)

Fig. 10

```
                                                                 CDR1
L18 germline:  A I Q L T Q S P S S L S A S V G D R V T I T C R A S Q G I S S A L A
1C3 VK:        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
2A10 VK:       - - - - - - - - - - - - - - - - - - - - - - - - - - - D - - - - - -
2F5 VK:        - - - - - - - - - - - - - - - - - - - - - - - - - - - D - - - - - -

                                               CDR2
L18 germline:  W Y Q Q K P G K A P K L L I Y D A S S L E S G V P S R F S G S G S G
1C3 VK:        - - - - - S - - - - - - - - F - - - - - - - - - - - - - - - - - - -
2A10 VK:       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - Y - - -
2F5 VK:        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                                                         CDR3
L18 germline:  T D F T L T I S S L Q P E D F A T Y Y C Q Q F N S Y P
JK4 germline:                                                        L T F G G G T
1C3 VK:        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
2A10 VK:       - - - - - - - N - - - - - - - - - - - - - - - - - - - - - - - - - -
2F5 VK:        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

JK4 germline:  K V E I K
1C3 VK:        - - - - -  (JK4)
2A10 VK:       - - - - -  (JK4)
2F5 VK:        - - - - -  (JK4)
```

Fig. 11

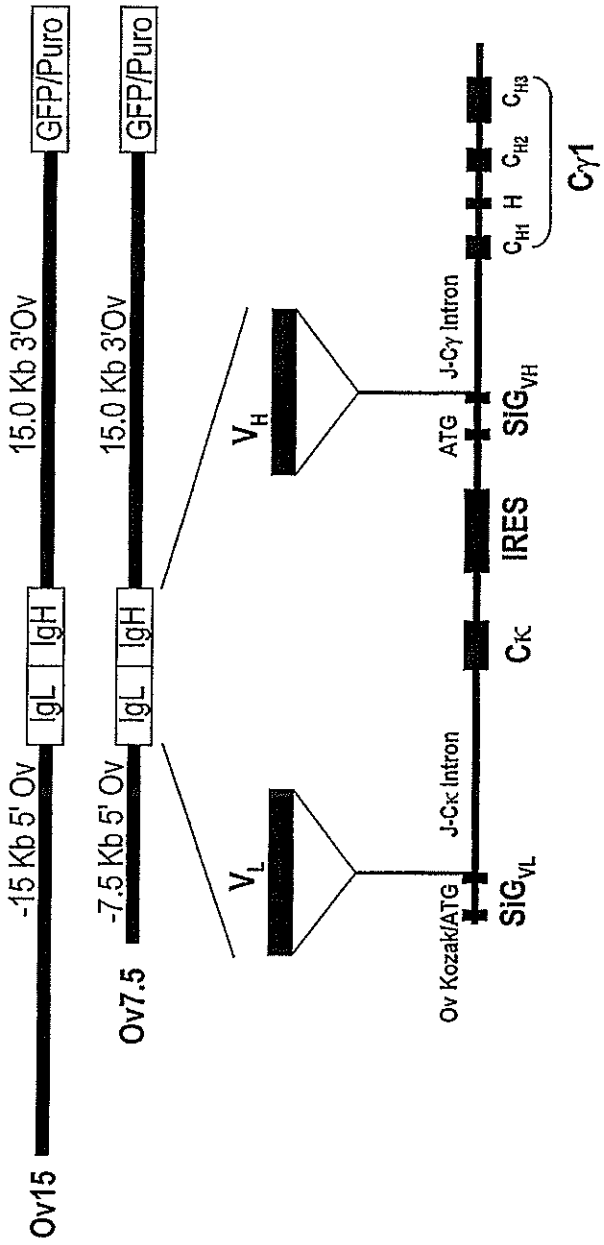

GFP/Puro
15.0 Kb 3'Ov
IgL
IgH
-15 Kb 5' Ov
Ov15
GFP/Puro
15.0 Kb 3'Ov
IgL
IgH
-7.5 Kb 5' Ov
Ov7.5
V_H
V_L
J-Cγ Intron
ATG
SiG_VH
IRES
C_K
J-C_K Intron
Ov Kozak/ATG
SiG_VL
C_H1
H
C_H2
C_H3
Cγ1

Fig. 12

Structure characterization of anti-PSMA 7F12 expressed in chicken eggs

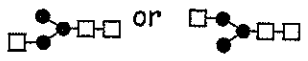
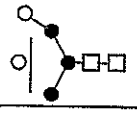
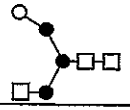
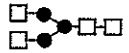
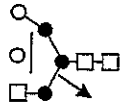
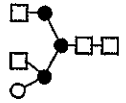
Obs. mass+Na+	Theo. mass+ Na+	Structure	Possible structure connectivity	Type
1136.4	1136.5	$(Man)_3(GlcNAc)_3$		
1257.4	1257.6	$(Hex)_2(Man)_3(GlcNAc)_2$		
1298.4	1298.44	$(Hex)(Man)_3(GlcNAc)_3$		
1339.46	1339.5	$(Man)_3(GlcNAc)_4$		GO
1460.49	1460.5	$(Hex)_2(Man)_3(GlcNAc)_3$		
1501.53	1501.5	$(Hex)(Man)_3(GlcNAc)_4$		

Fig. 13A

Obs. mass+Na+	Theo. mass+ Na+	Structure	Possible structure connectivity	Type
1542.56	1542.6	$(Man)_3(GlcNAc)_5$		
1663.6	1663.58	$(Hex)_2(Man)_3(GlcNAc)_4$		
1704.6	1704.6	$(Hex)(Man)_3(GlcNAc)_5$		
1745.66	1745.6	$(Man)_3(GlcNAc)_6$		
1866.7	1866.7	$(Hex_{)2(}Man)_3(GlcNAc)_5$		
1948.7	1948.68	$(Man)_3(GlcNAc)_6$		

Fig. 13B

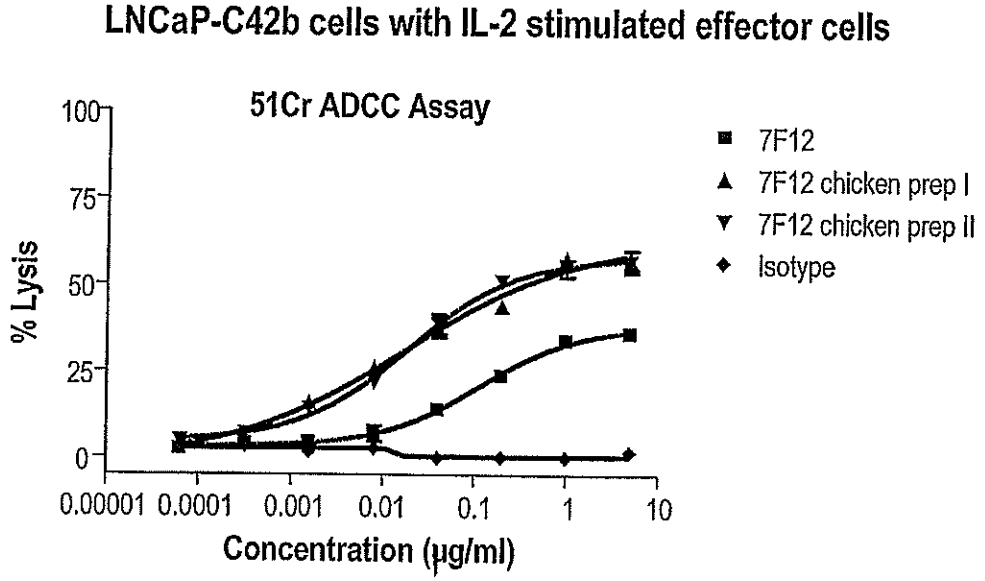


Fig. 14A

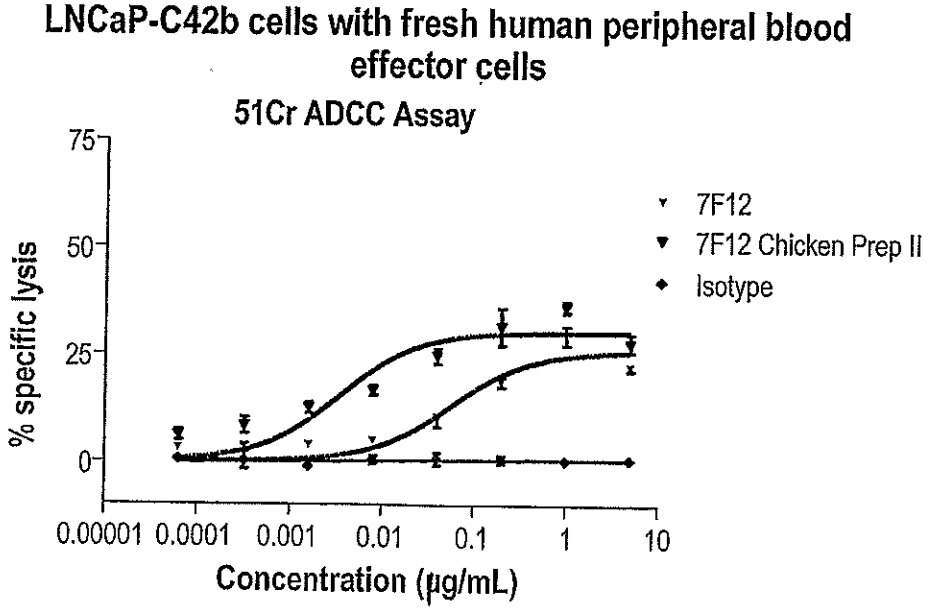


Fig. 14B

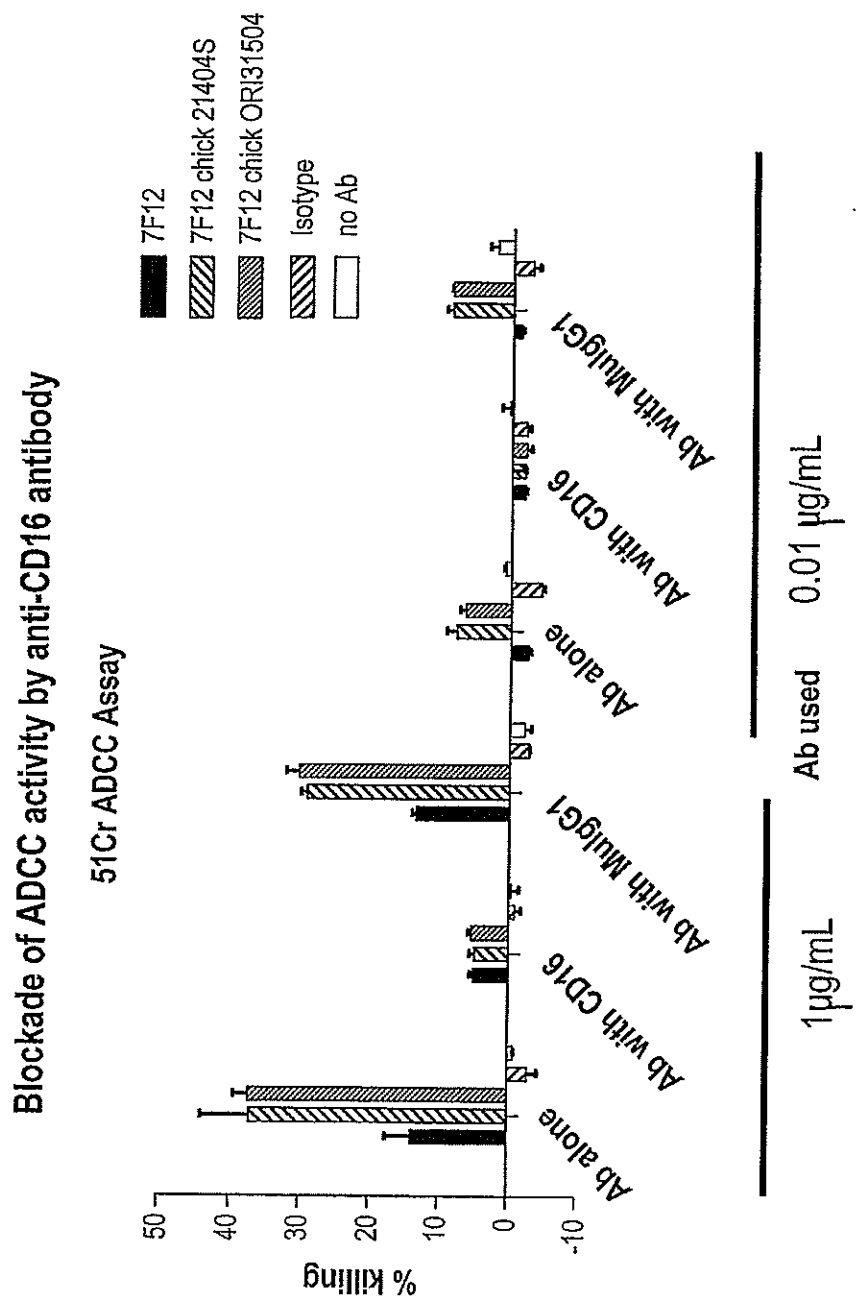

Blockade of ADCC activity by anti-CD16 antibody
51Cr ADCC Assay
7F12
7F12 chick 21404S
7F12 chick ORI31504
Isotype
no Ab
% killing
50
40
30
20
10
0
-10
Ab alone
Ab with CD16
Ab with MuIgG1
Ab alone
Ab with CD16
Ab with MuIgG1
1µg/mL
Ab used
0.01 µg/mL

Fig. 15

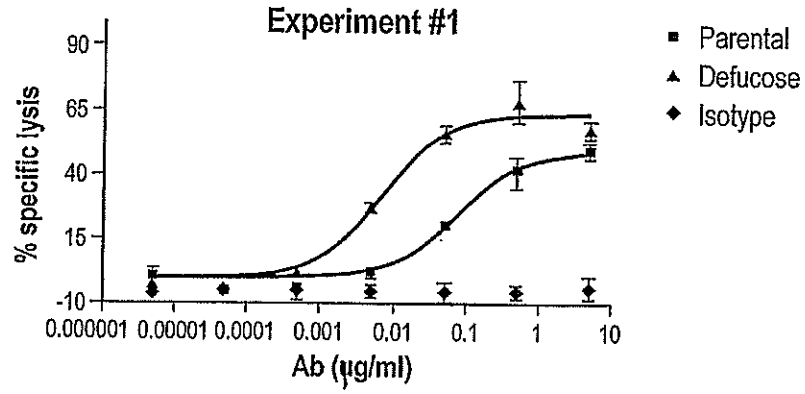


Fig. 16A

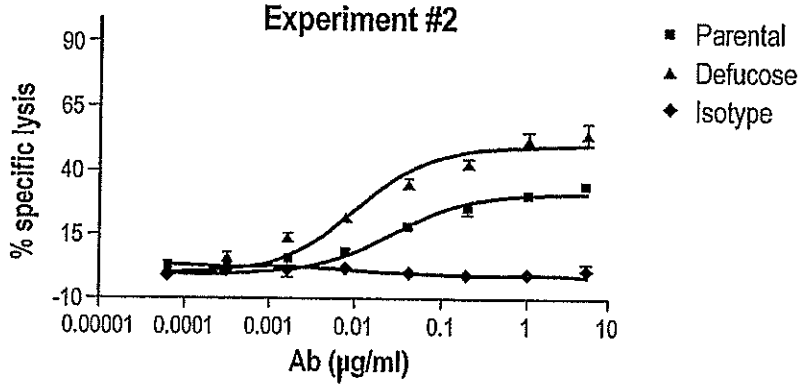


Fig. 16B

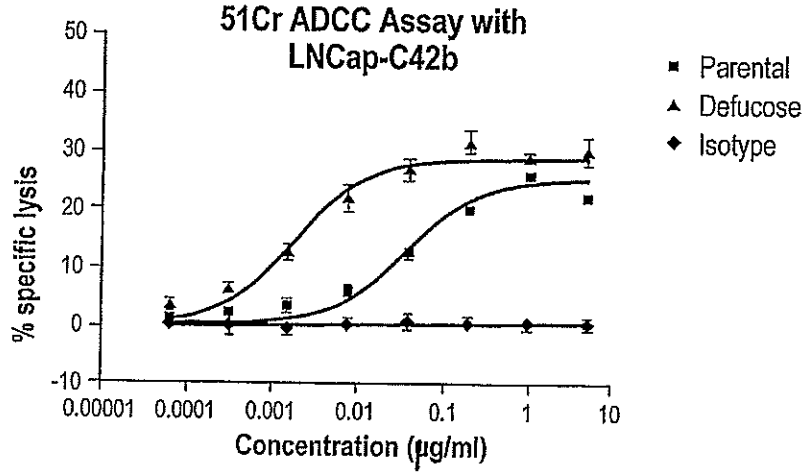


Fig. 16C

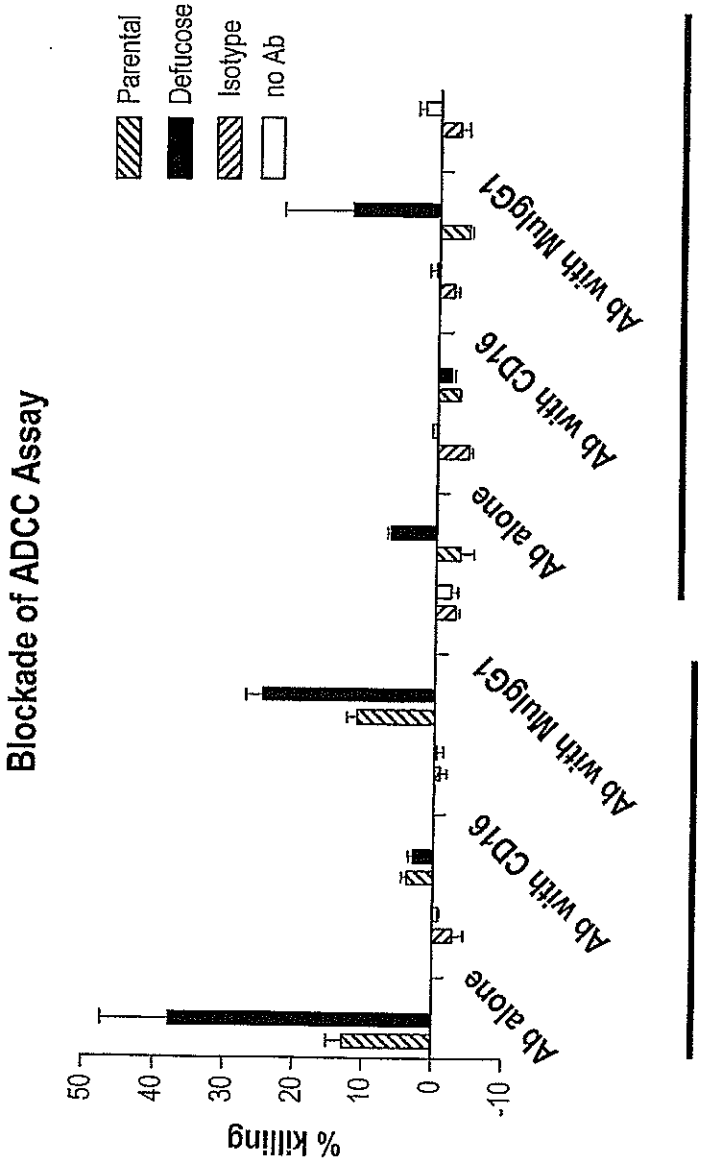

Blockade of ADCC Assay
Parental
Defucose
Isotype
no Ab
% killing
50
40
30
20
10
0
-10
Ab alone
Ab with CD16
Ab with MuIgG1
Ab alone
Ab with CD16
Ab with MuIgG1
1µg/mL
0.01 µg/mL
Ab used

Fig. 17