

1/33

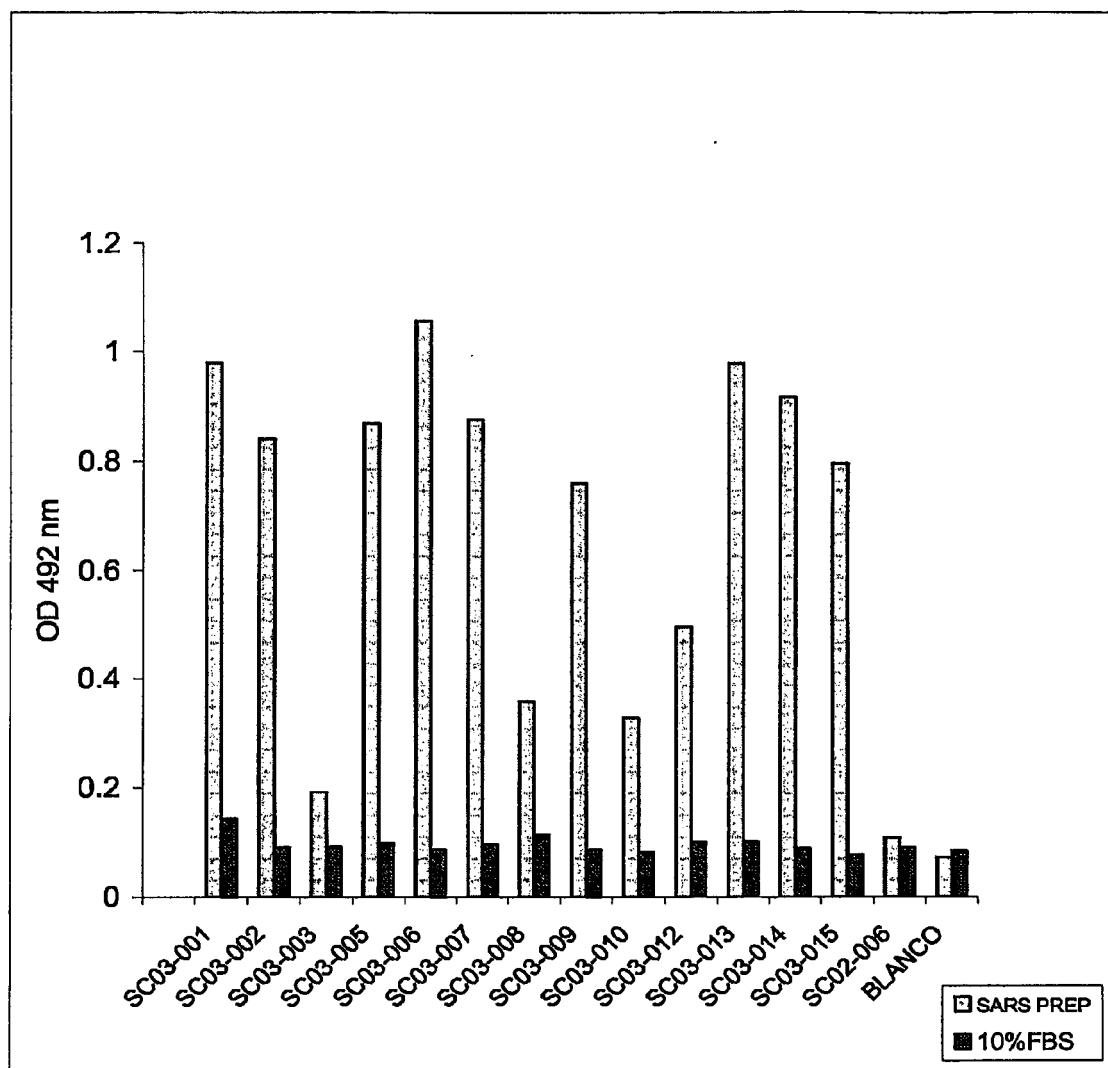
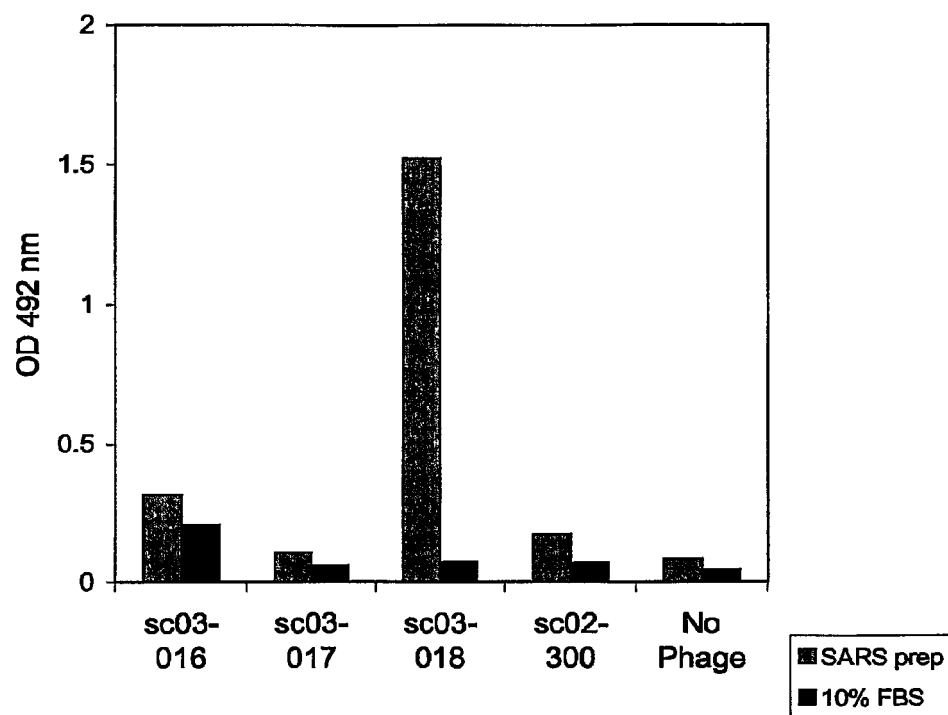


Figure 1

2/33

**Figure 2**

3/33

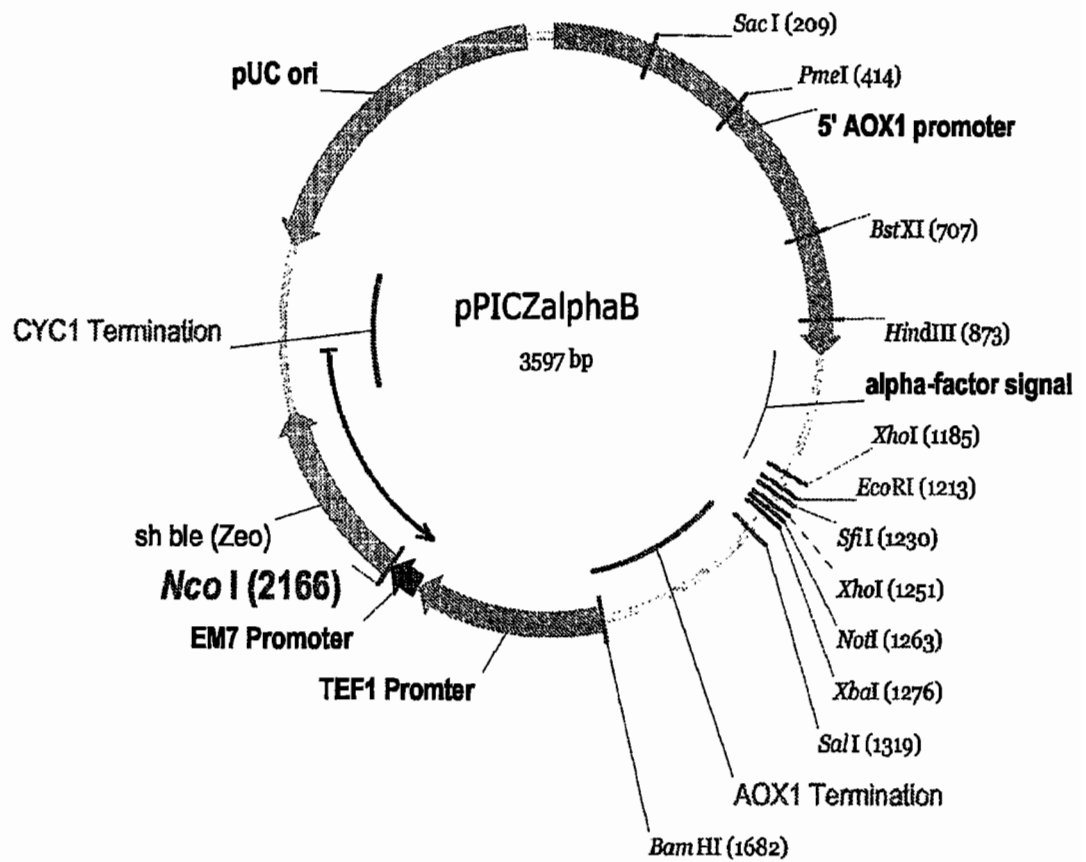


Figure 3A

4/33

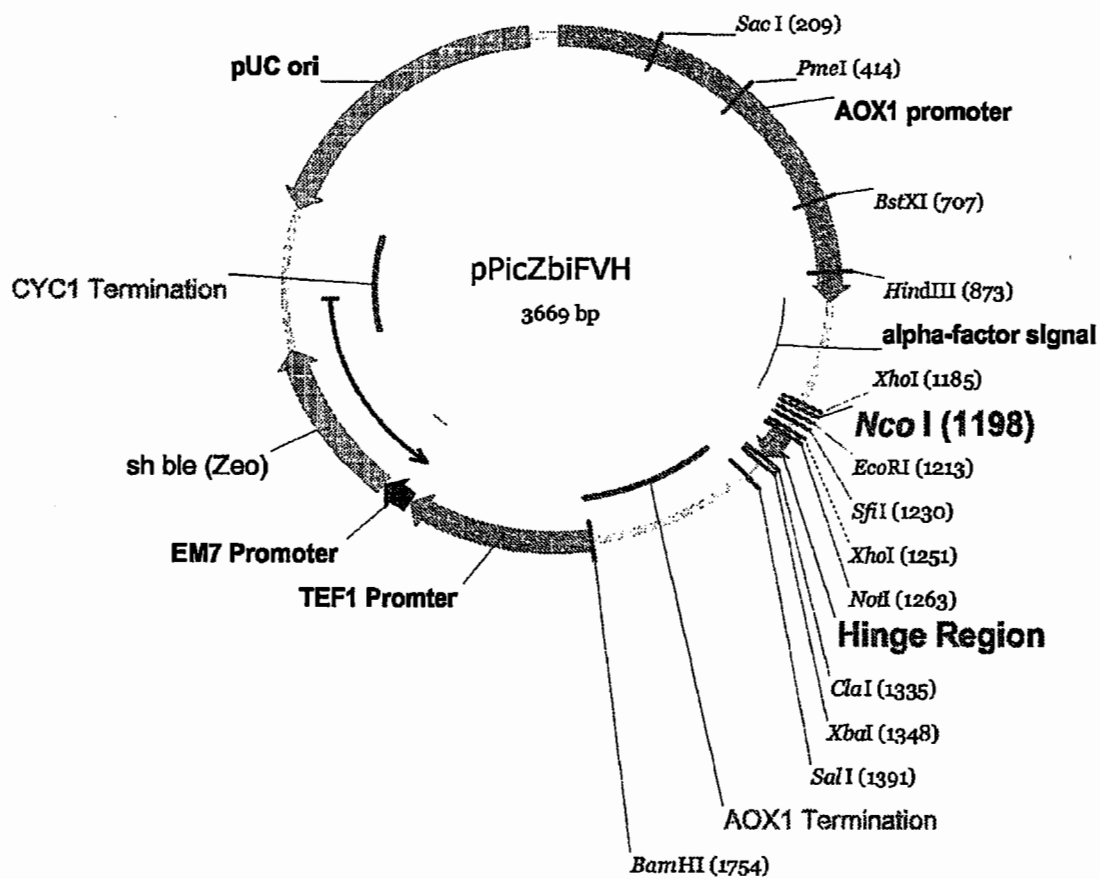


Figure 3B

5/33

5' Cloning site of pPicZαB

KEK2
Cleavage
site

XhoI EcoRI SfiI

~~~~~                      ~~~~~                      ~~~~~

S L E K R E A E A A G I H V A Q P A

1151 TCTCTCGAGA AAAGAGAGGC TGAAGCTGCA GGAATTCACG TGGCCCAGCC GGCCG

AGAGAGCTCT TTTCTCTCCG ACTTCGACGT CCTTAAGTGC ACCGGGTCGG CCGGC

## 5' Cloning site of pPicZFH

KEK2  
Cleavage  
site

XhoI                      NcoI                      EcoRI                      SfiI

~~~~~                      ~~~~~                      ~~~~~                      ~~~~~

S L E K R A M E A A G I H V A Q P A

1151 TCTCTCGAGA AAAGAGCCATGGAAGCTGCA GGAATTCACG TGGCCCAGCC GGCCG

AGAGAGCTCT TTTCTCGGTACCTTCGACGT CCTTAAGTGC ACCGGGTCGG CCGGC

synthetic hinge fragment

Cysteine residues
available for
disulphide bonding

Flexible upper
hinge region

NotI ~~~~~

A A A P K P S T P P G S S C P P C .

1 GCGGCCGCGC CAAAGCCAAG TACCCACCA GGTTCCTTCAT GTCCACCATG

CGCCGGC GCGC GTTTCGGTTC ATGGGGTGGT CCAAGAAGTA CAGGTGGTAC

Short linker ClaI XbaI

~~~~~                      ~~~~~                      ~~~~~

• P G S G G A P I D S G F L

51 TCCAGGCTCT GCGGGTGC GC CAATCGATAG CGGCTTTCTA GA

AGGTCCGAGA CCGCCACGCG GTTAGCTATC GCCGAAAGAT CT

Figure 3C

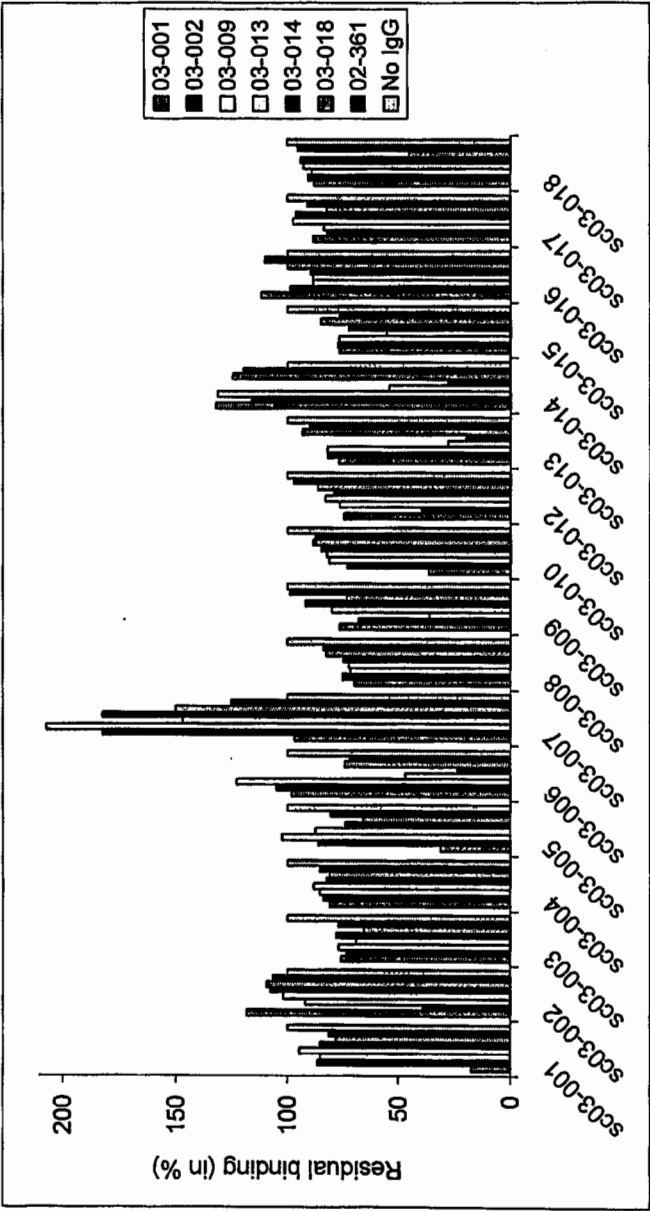


Figure 4

7/36/

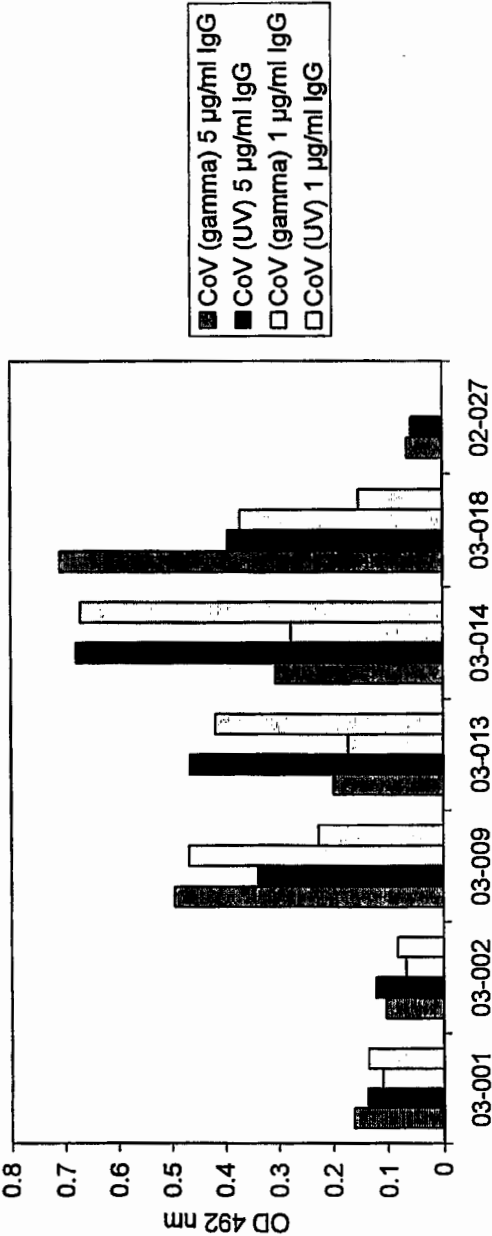


Figure 5

8/33

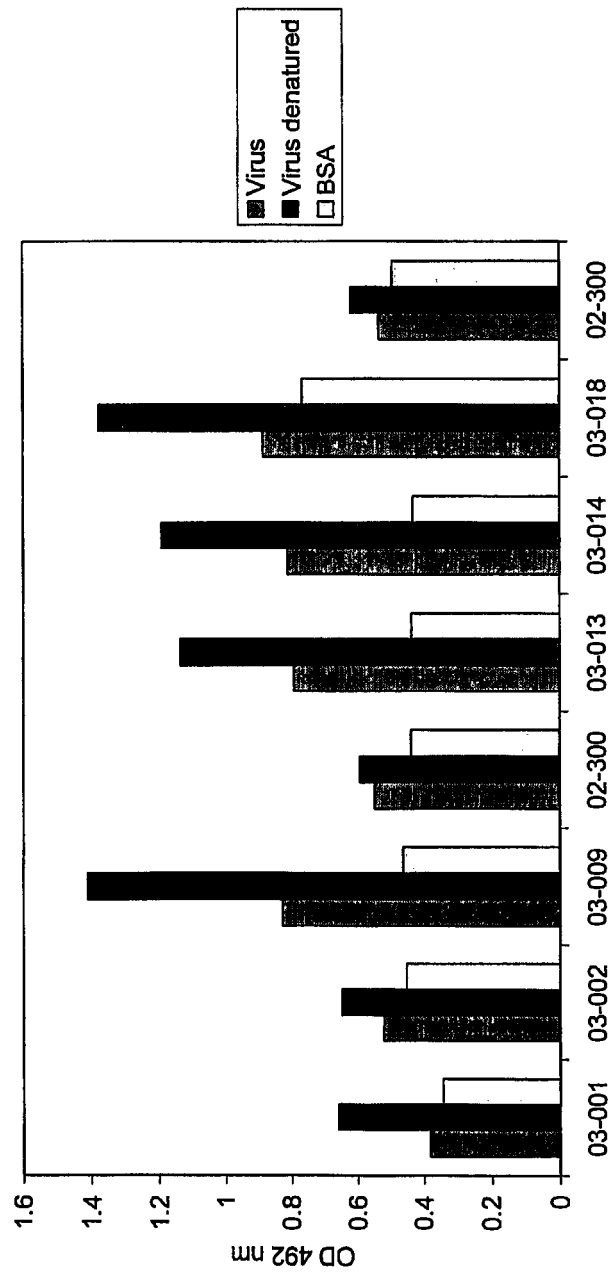


Figure 6A

9/33

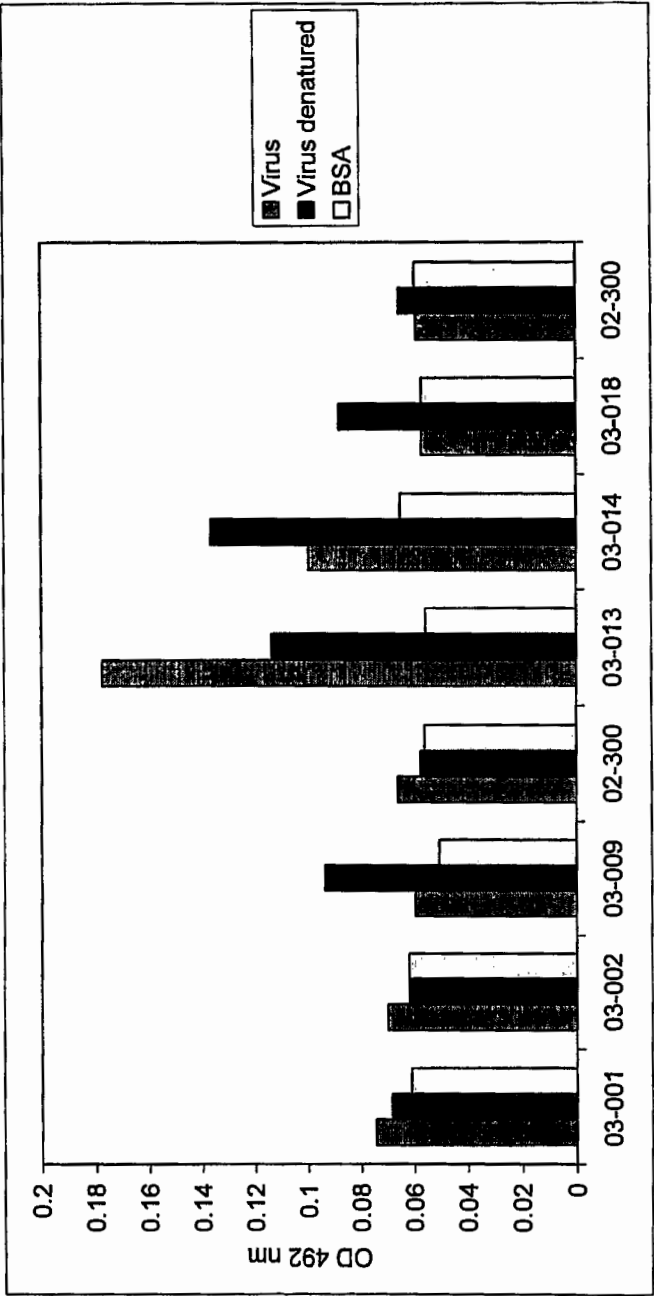


Figure 6B

10/33

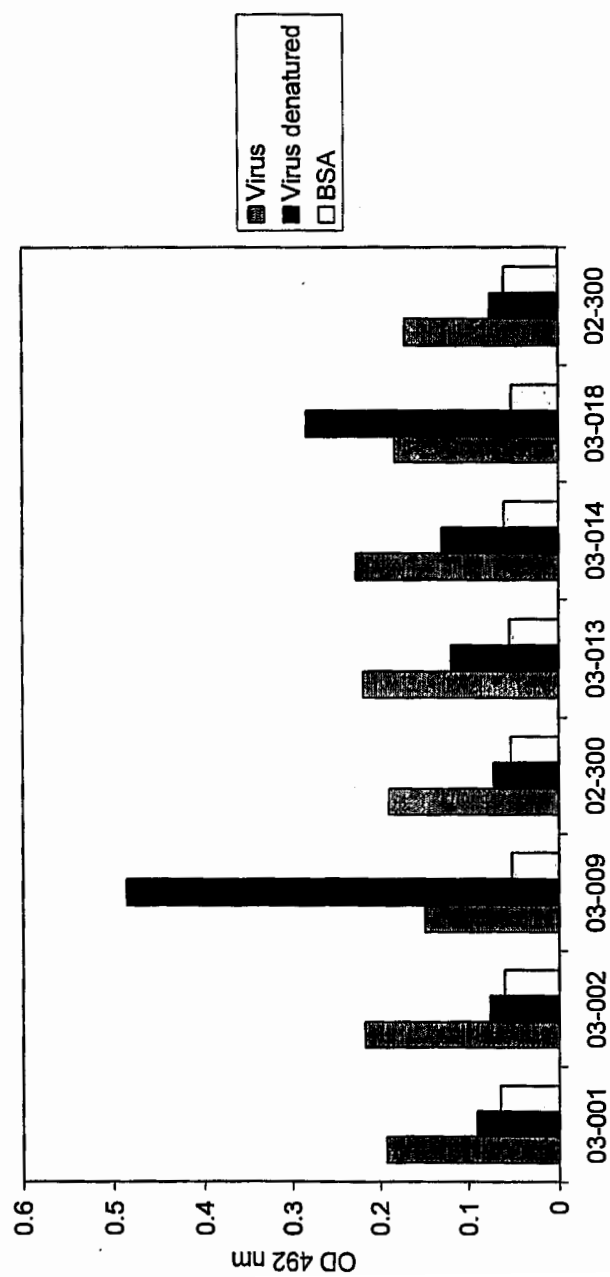


Figure 6C

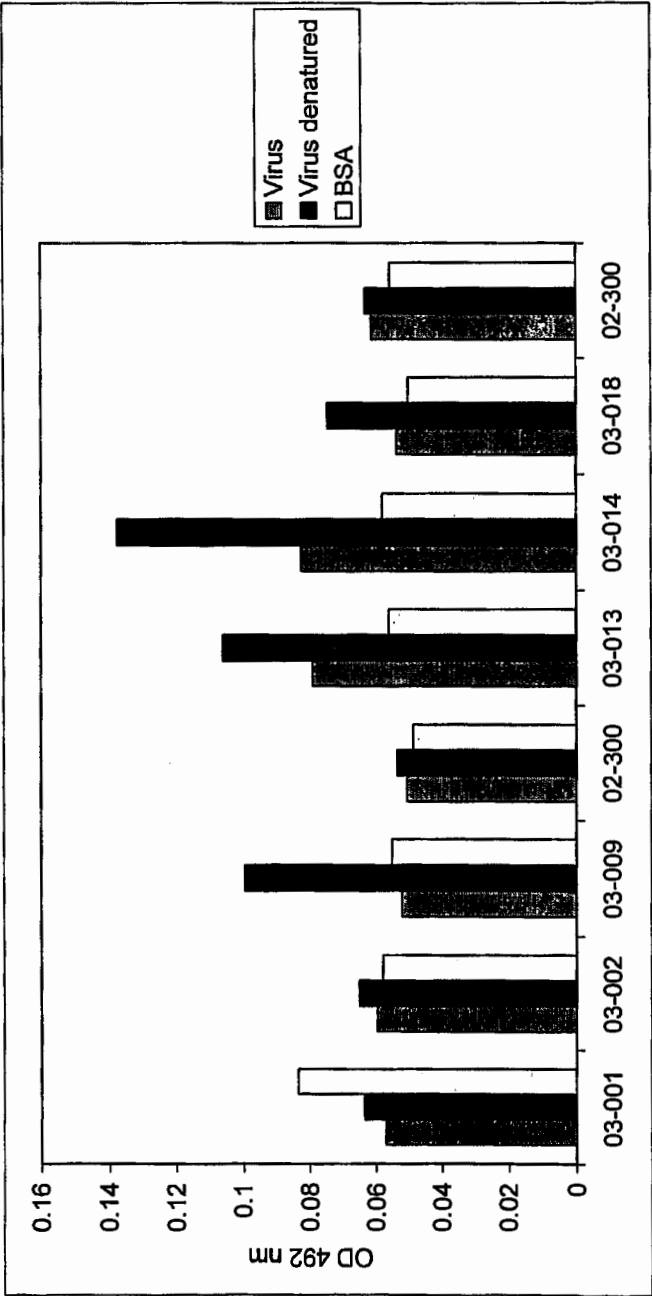
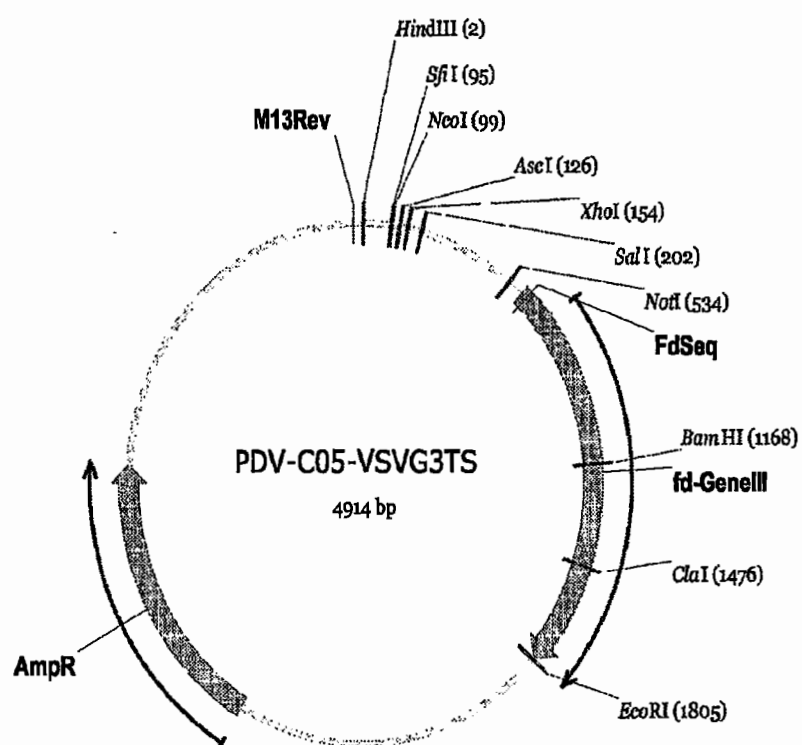


Figure 6D

12/33

**Figure 7**

13/33

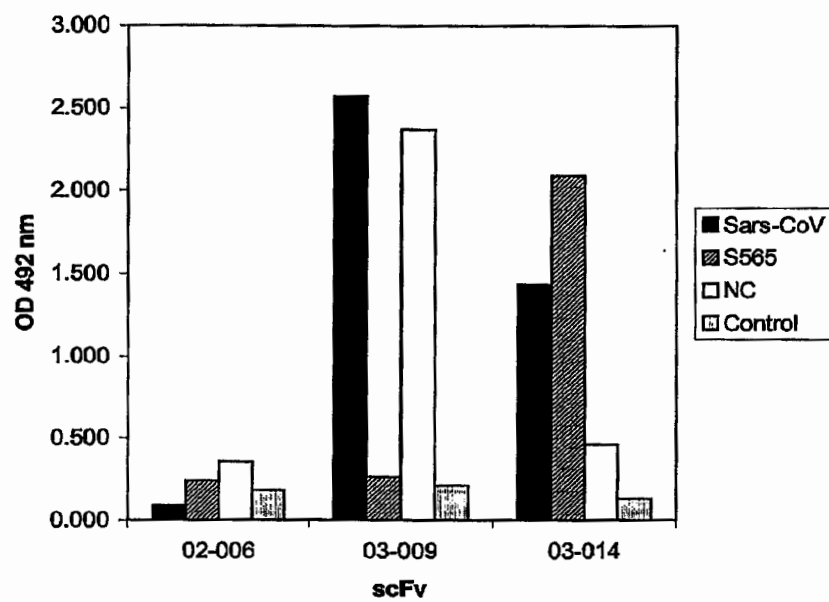


Figure 8

14/33

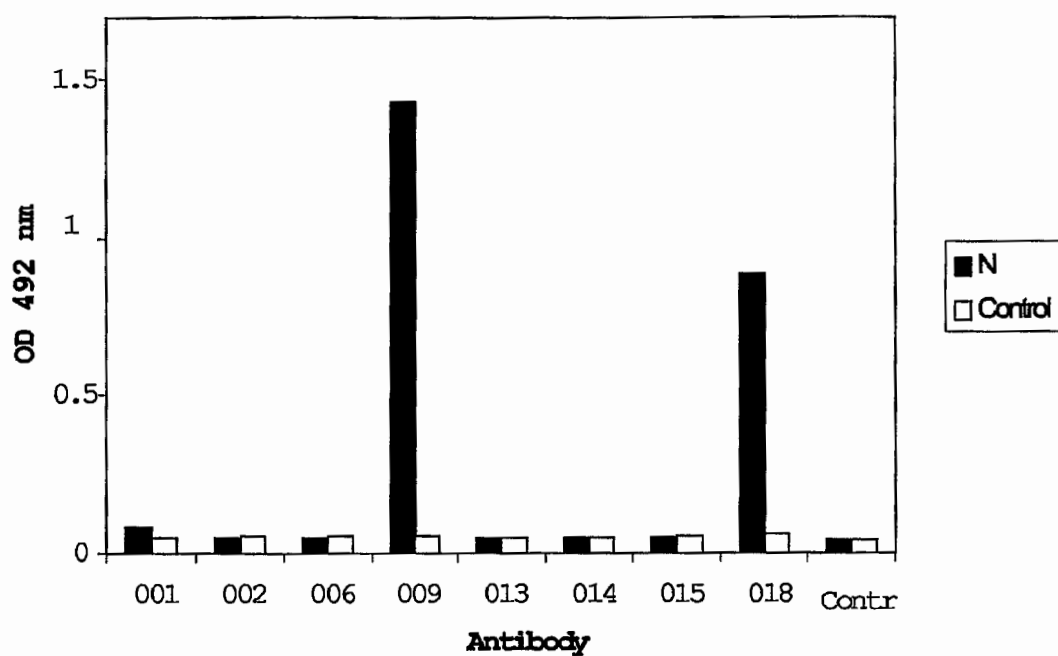


Figure 9

15/33

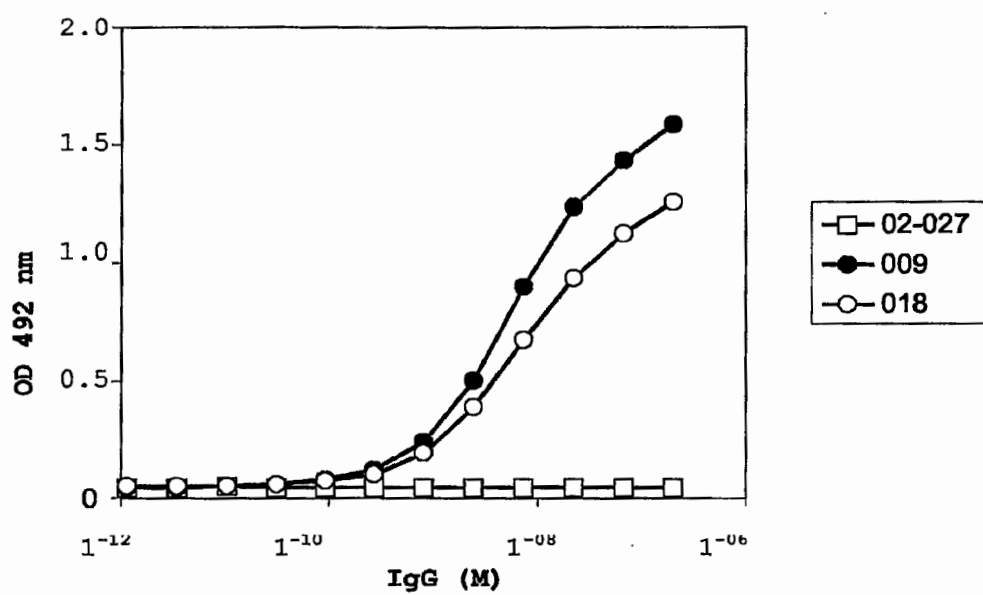


Figure 10

16/33

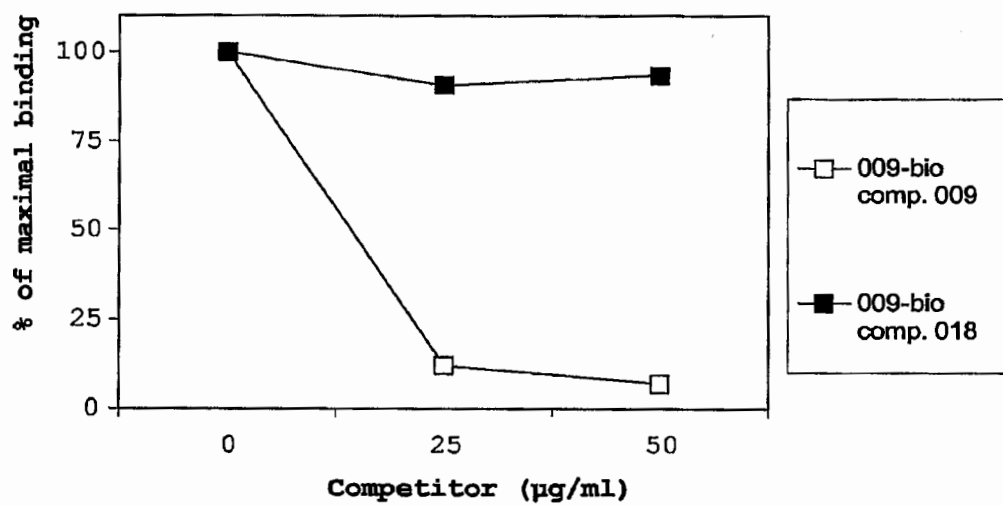


Figure 11

17/33

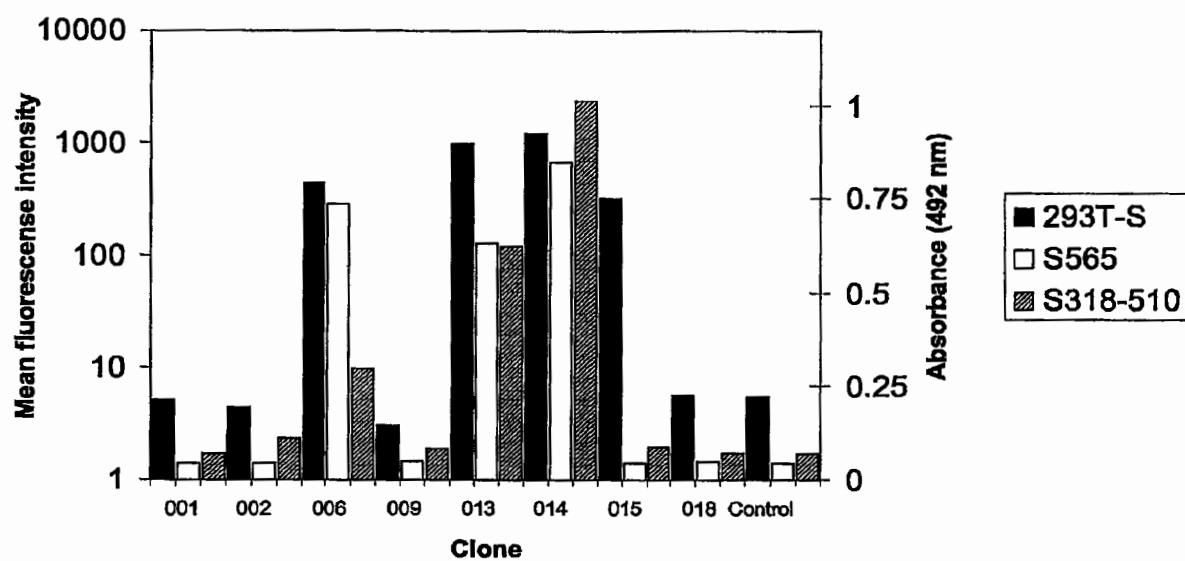


Figure 12

18/33

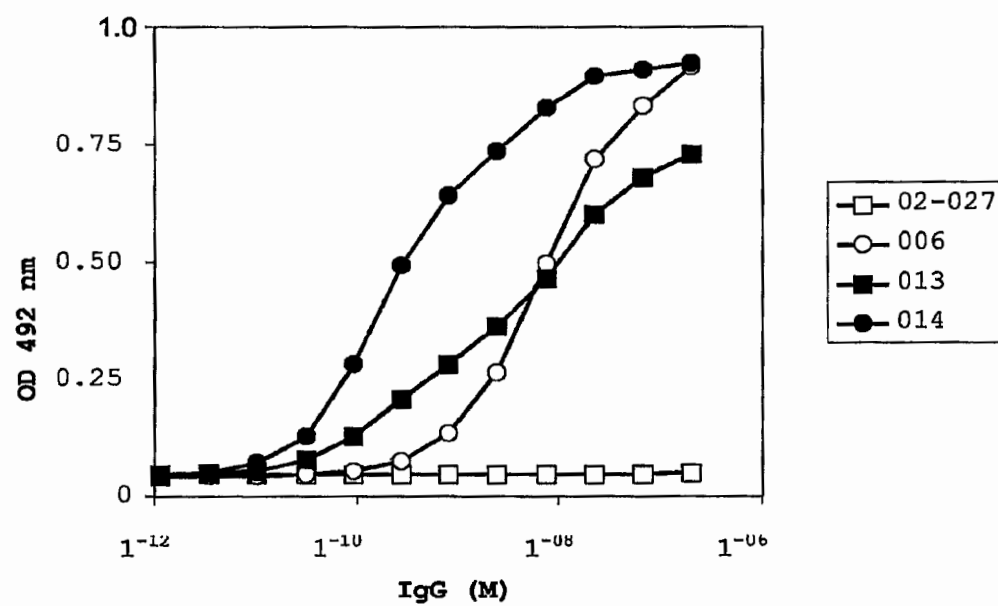


Figure 13

19/33

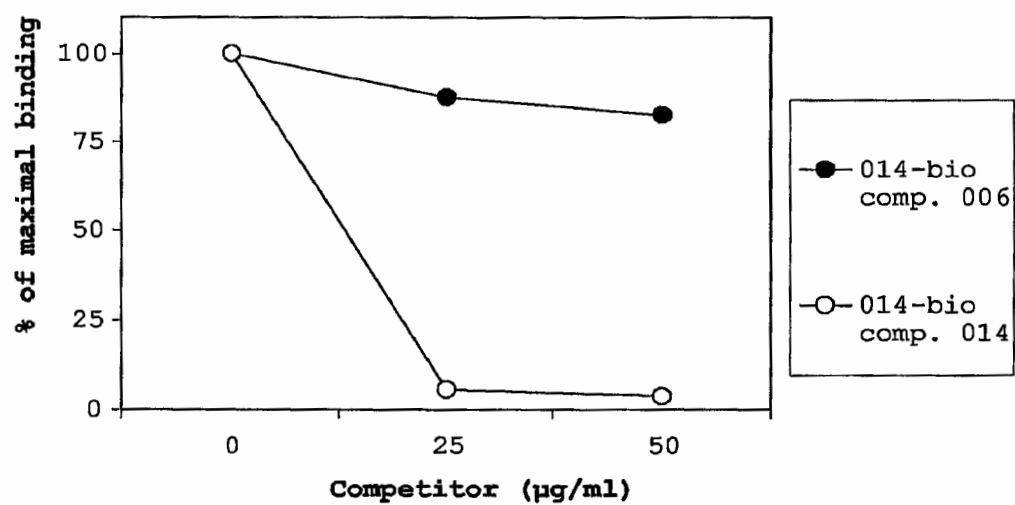


Figure 14

20/33

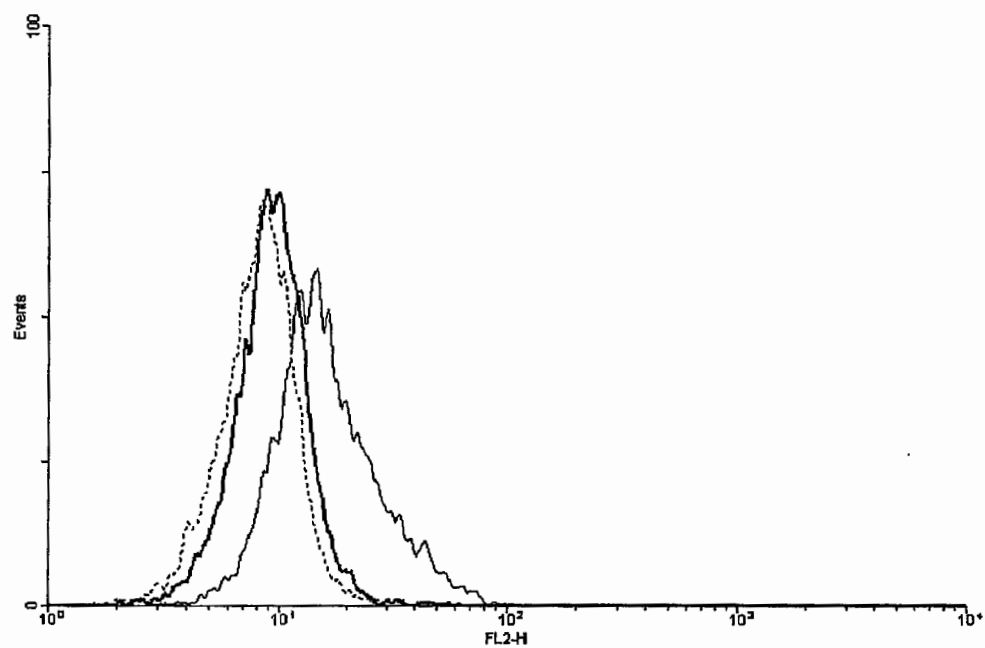


Figure 15

21/33

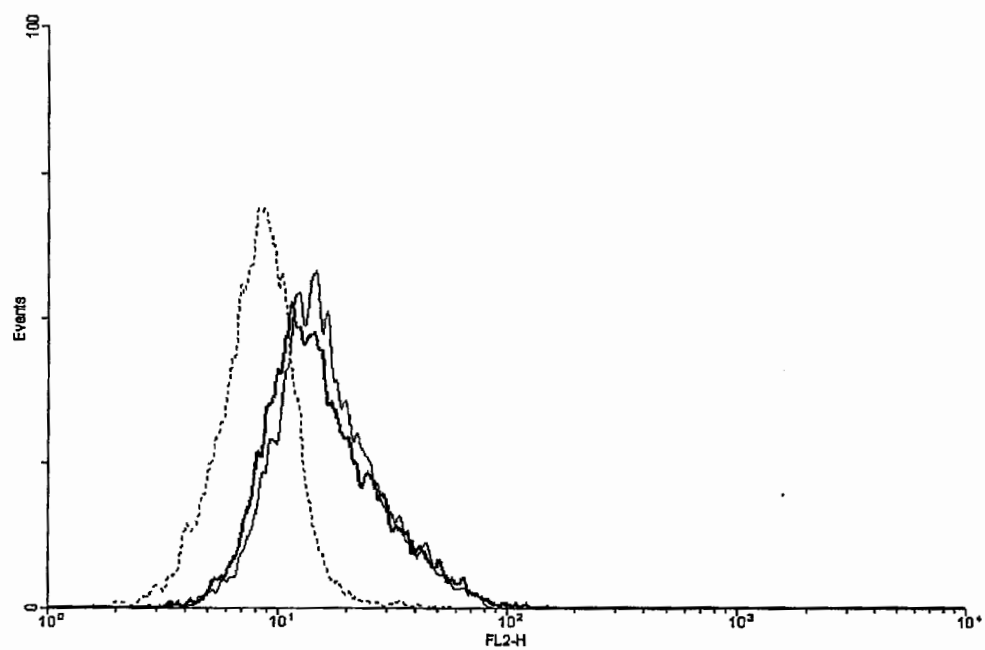


Figure 16

22/33

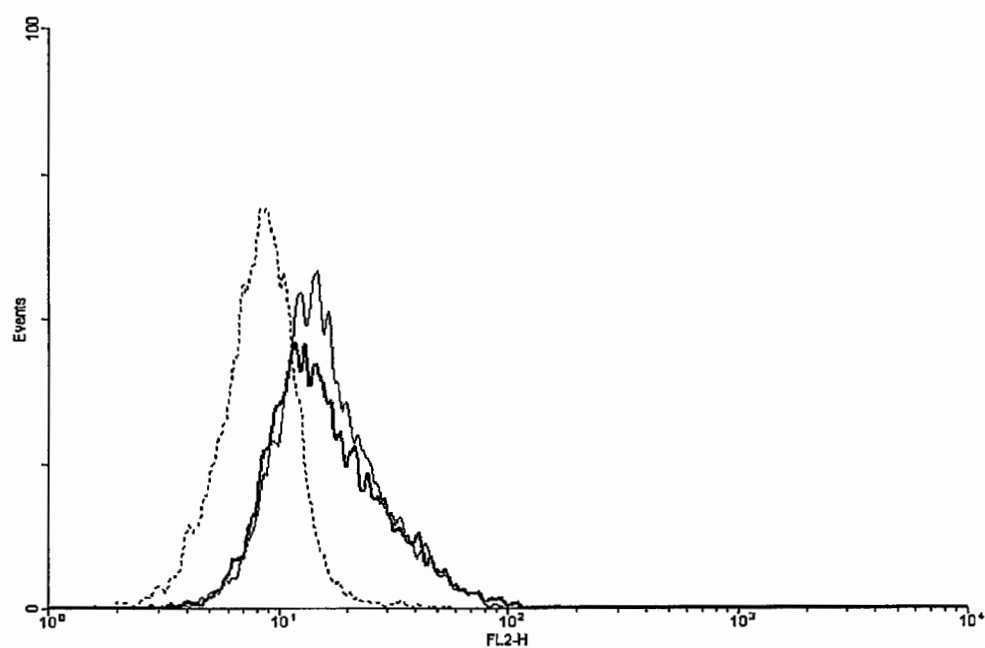
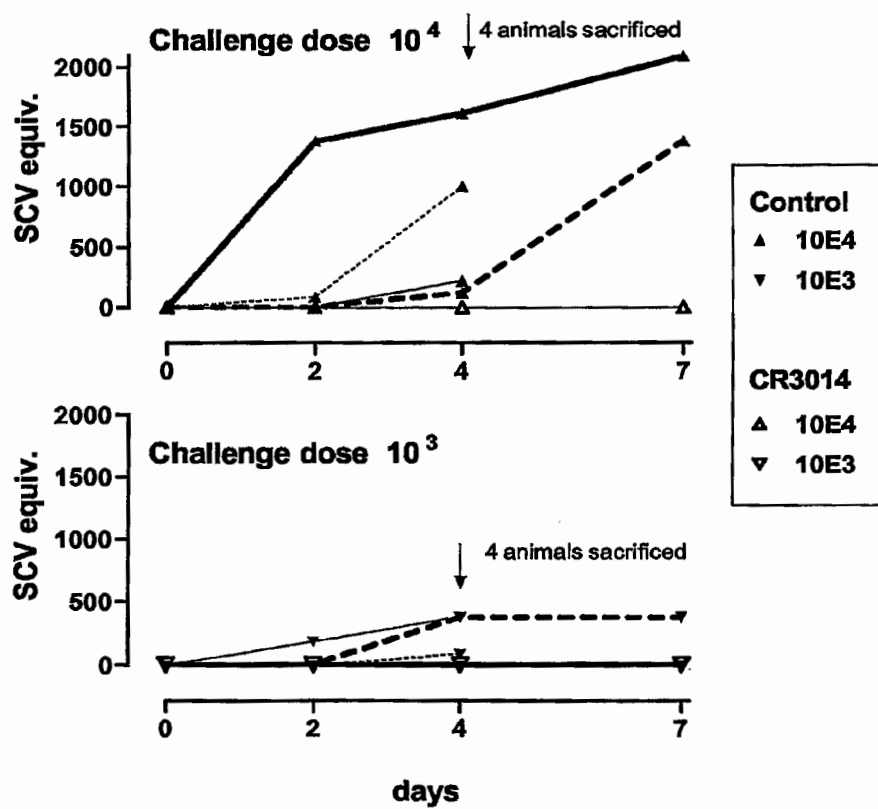


Figure 17

23/33

**SARS-CoV excretion****Figure 18**

24/33

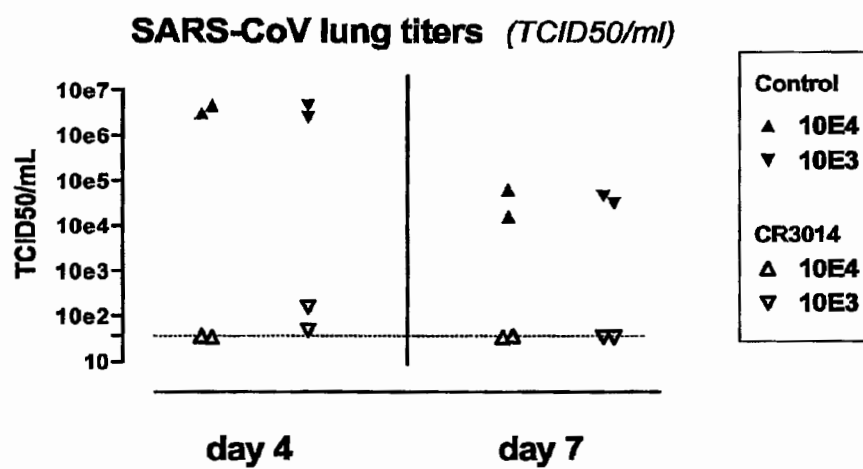


Figure 19

25/33

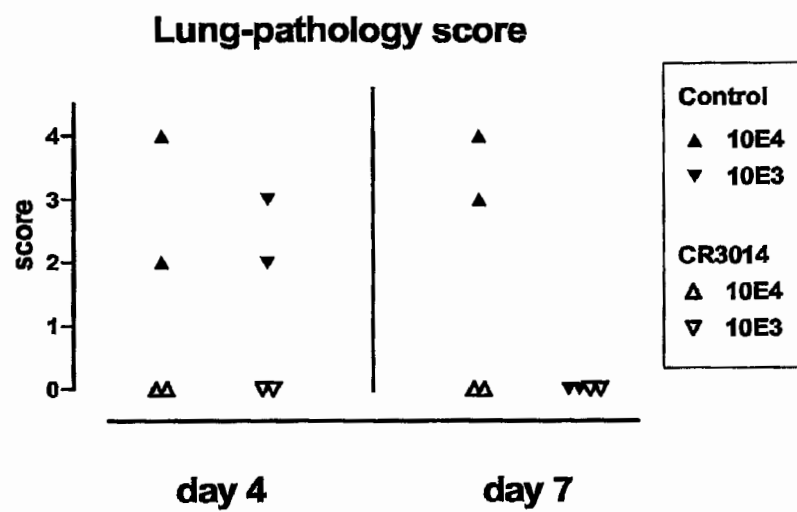


Figure 20

26/33

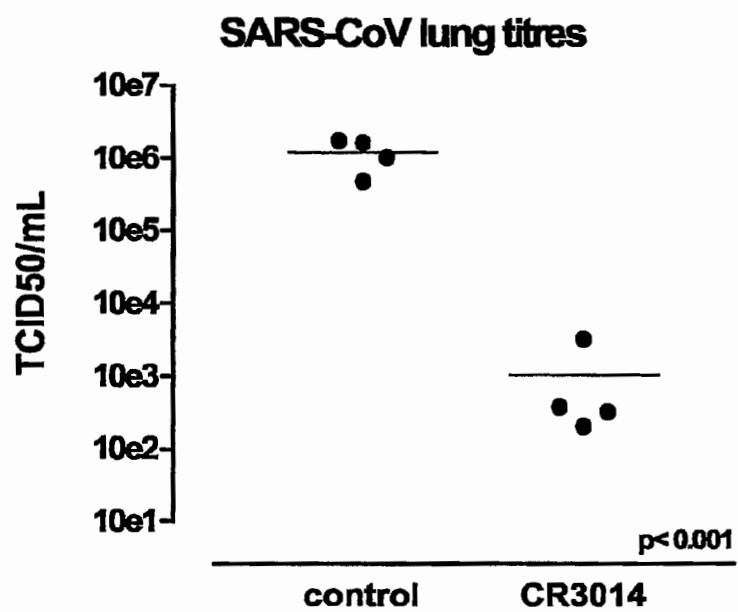


Figure 21

27/33

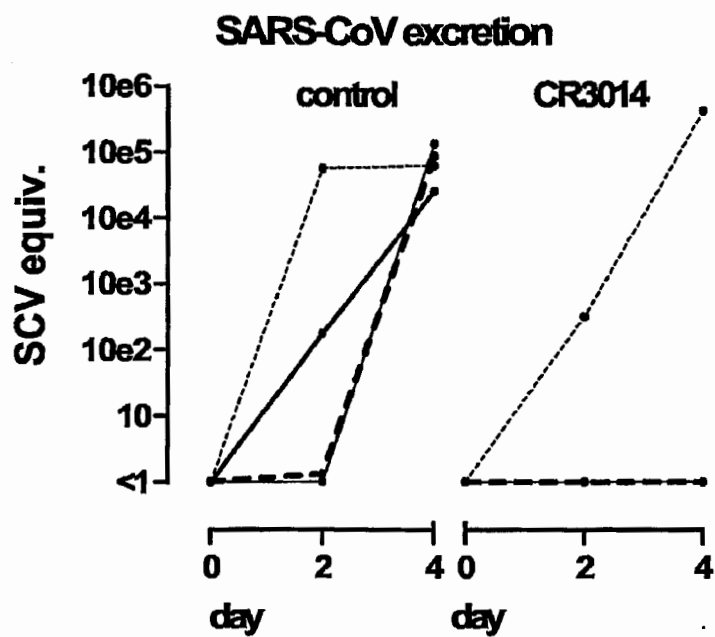


Figure 22

28/33

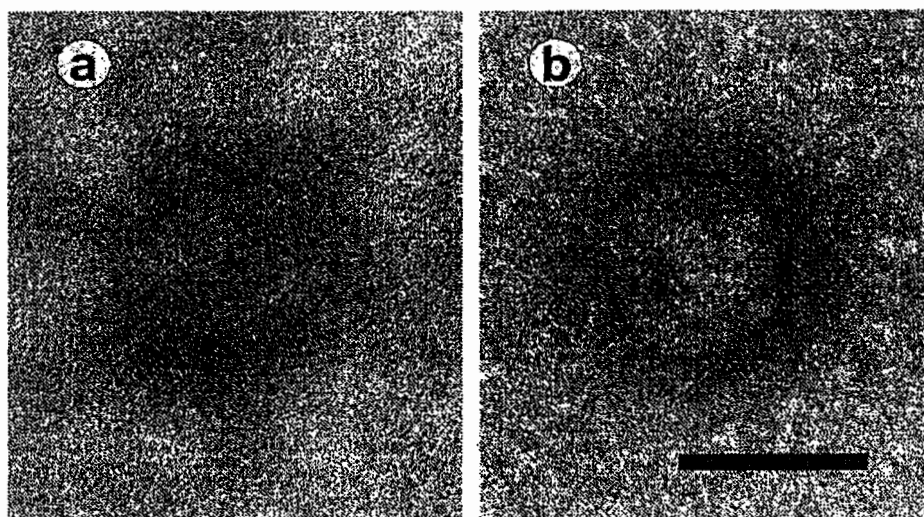


Figure 23

29/33

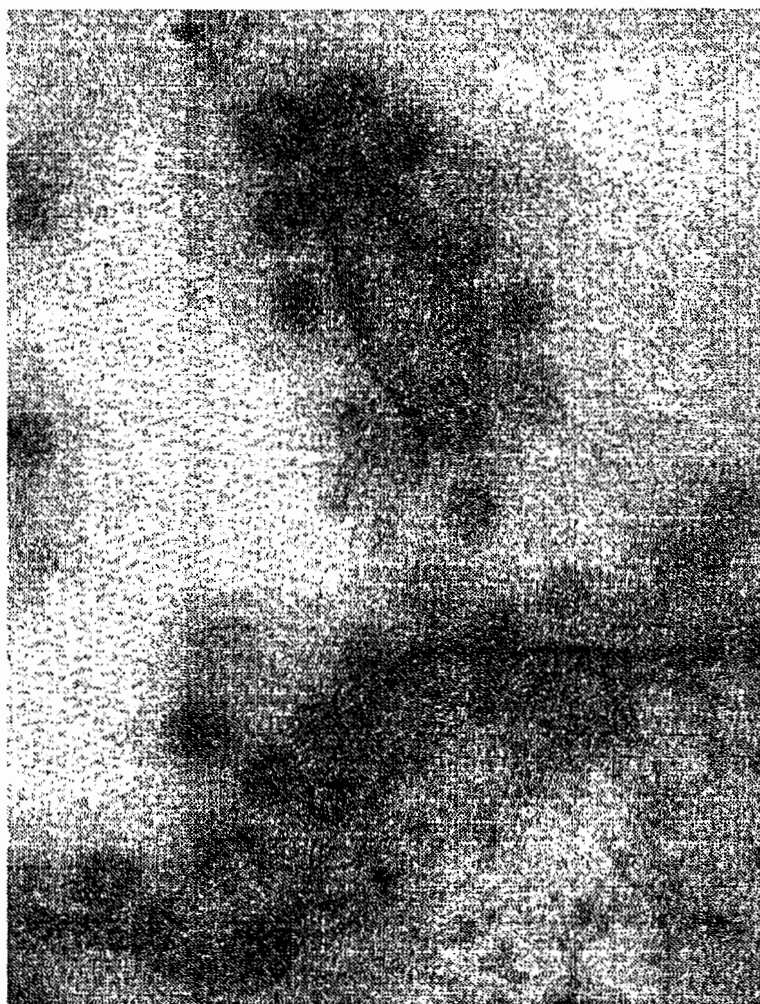


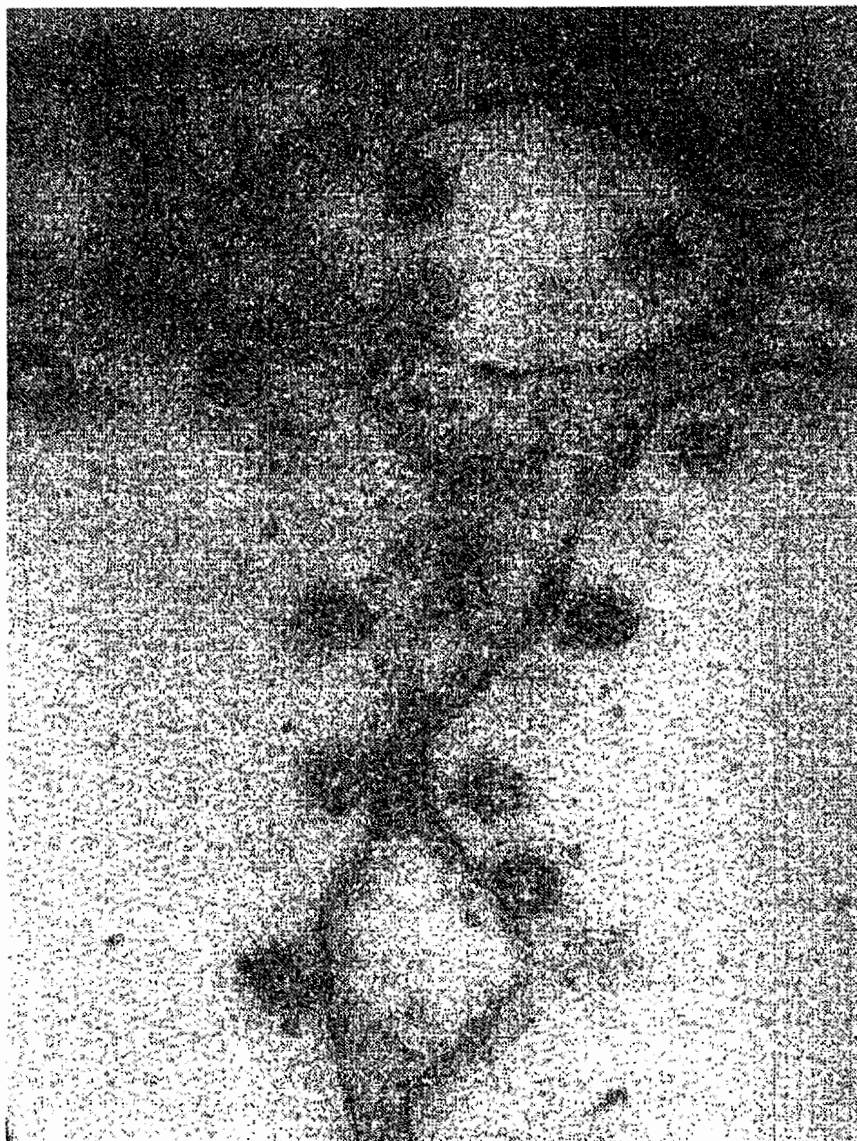
Figure 24A

30/33



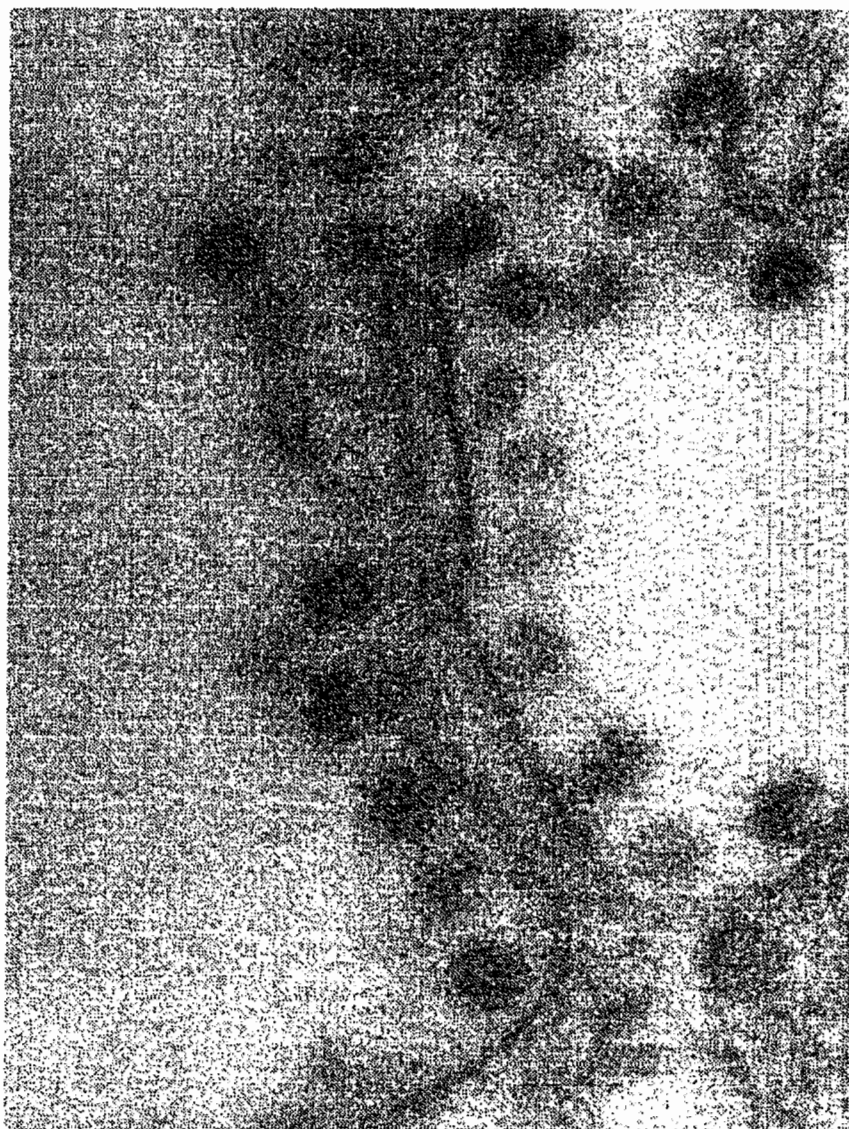
**Figure 24B**

31/33



**Figure 24C**

32/33



**Figure 24D**

33/33

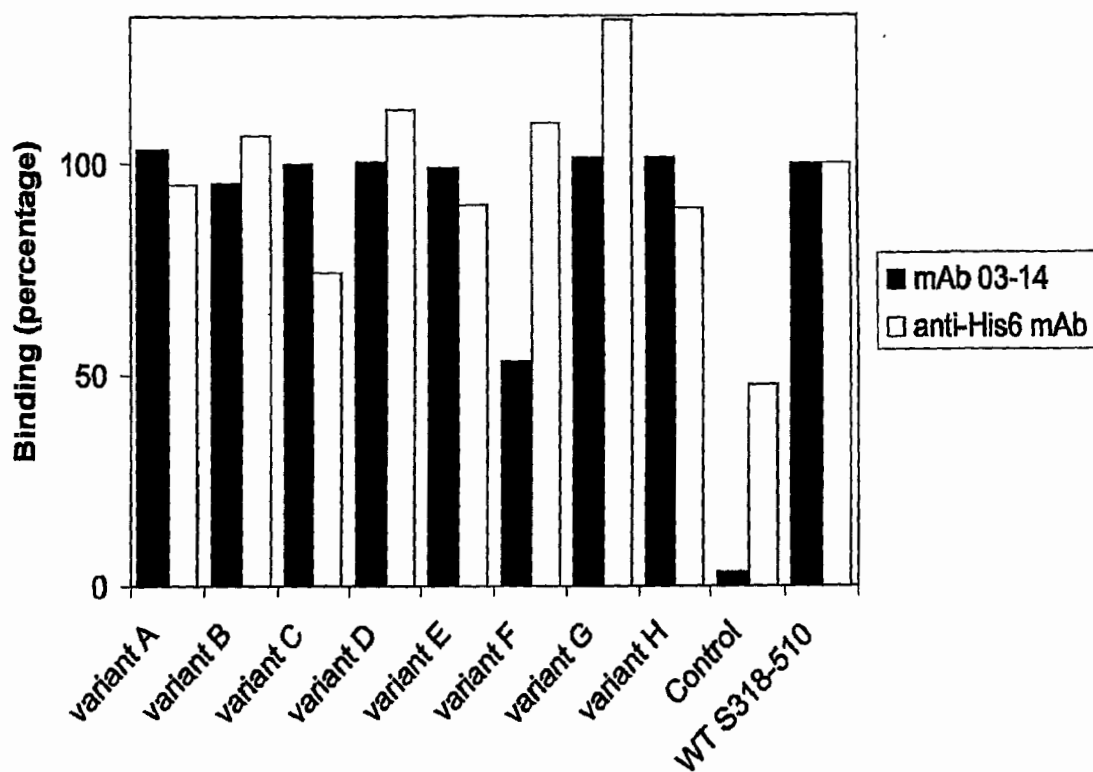


Figure 25