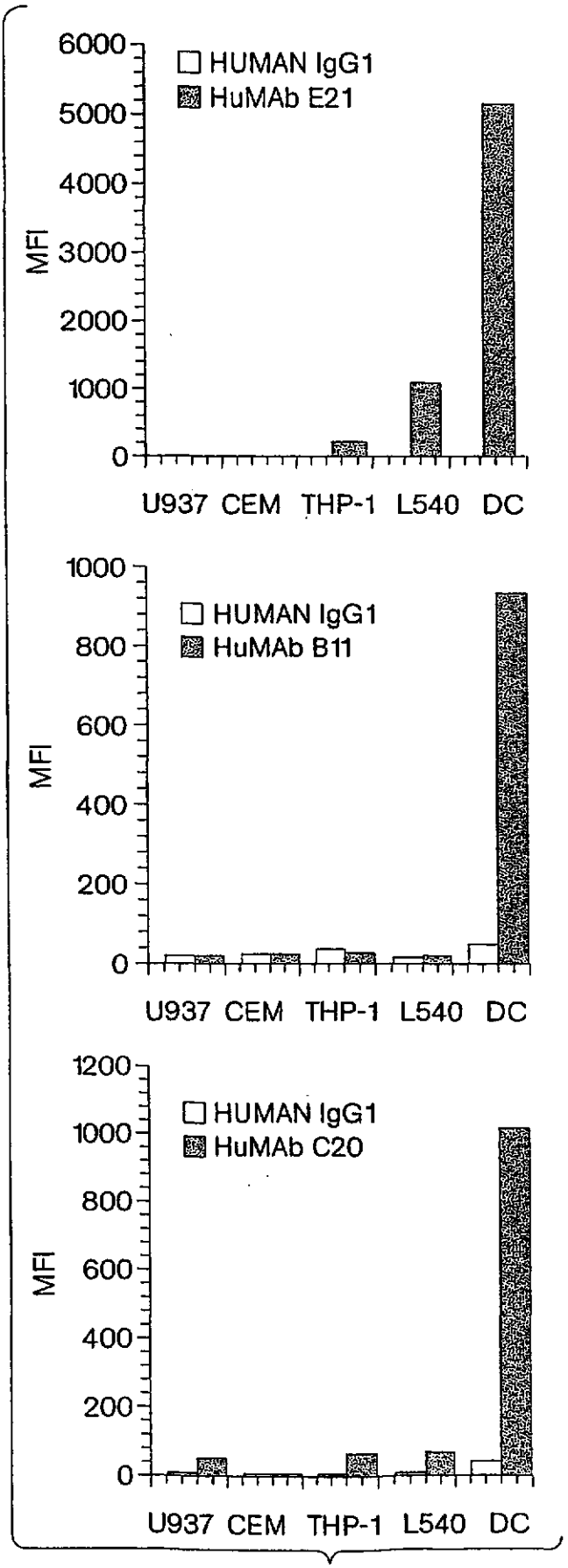

6000
5000
4000
3000
2000
1000
0
MFI
HUMAN IgG1
HuMAb E21
U937 CEM THP-1 L540 DC
1000
800
600
400
200
0
MFI
HUMAN IgG1
HuMAb B11
U937 CEM THP-1 L540 DC
1200
1000
800
600
400
200
0
MFI
HUMAN IgG1
HuMAb C20
U937 CEM THP-1 L540 DC

Fig. 1

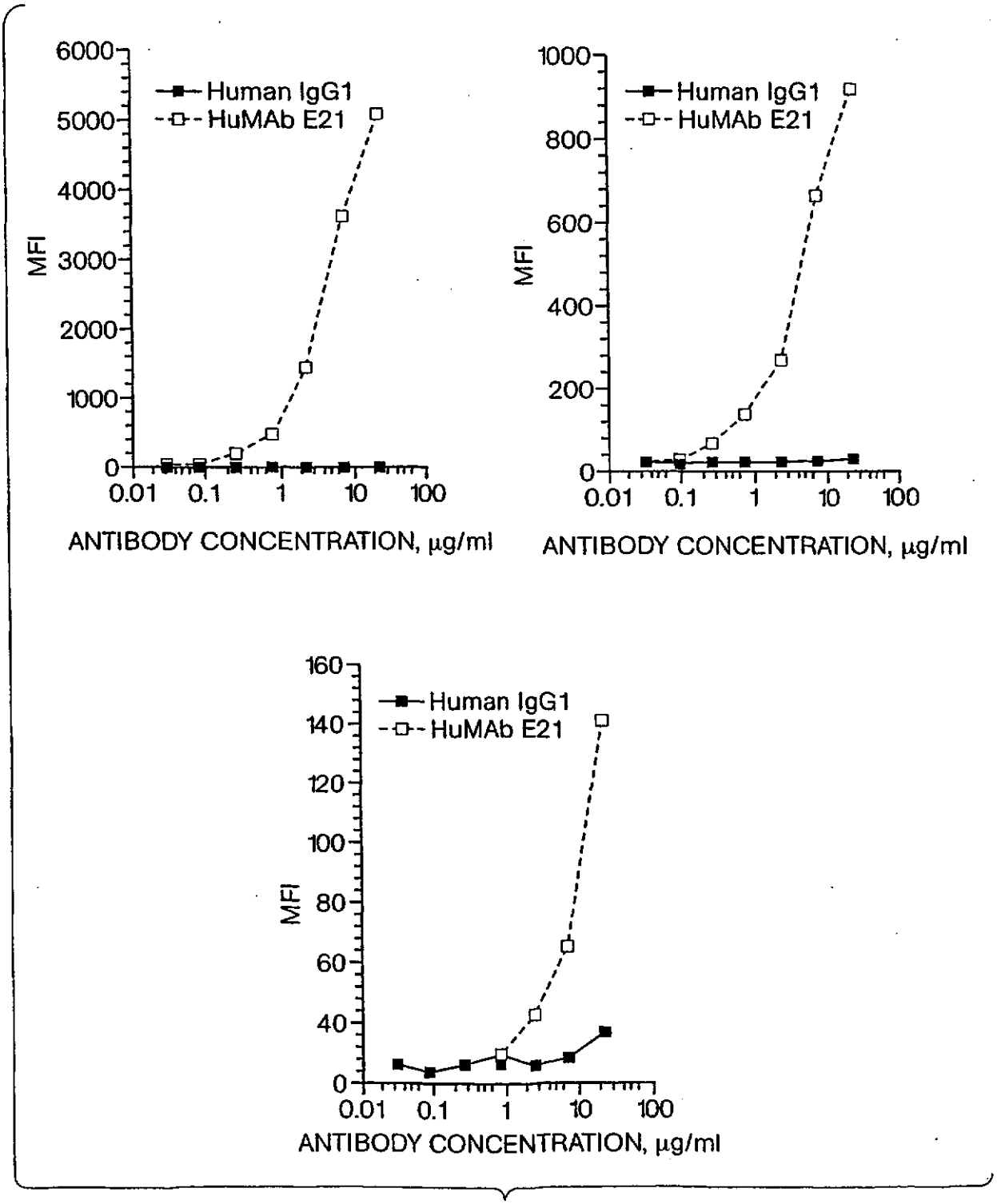

6000
5000
4000
3000
2000
1000
0
MFI
Human IgG1
HuMAb E21
0.01
0.1
1
10
100
ANTIBODY CONCENTRATION, µg/ml
1000
800
600
400
200
0
MFI
Human IgG1
HuMAb E21
0.01
0.1
1
10
100
ANTIBODY CONCENTRATION, µg/ml
160
140
120
100
80
60
40
0
MFI
Human IgG1
HuMAb E21
0.01
0.1
1
10
100
ANTIBODY CONCENTRATION, µg/ml

Fig. 2

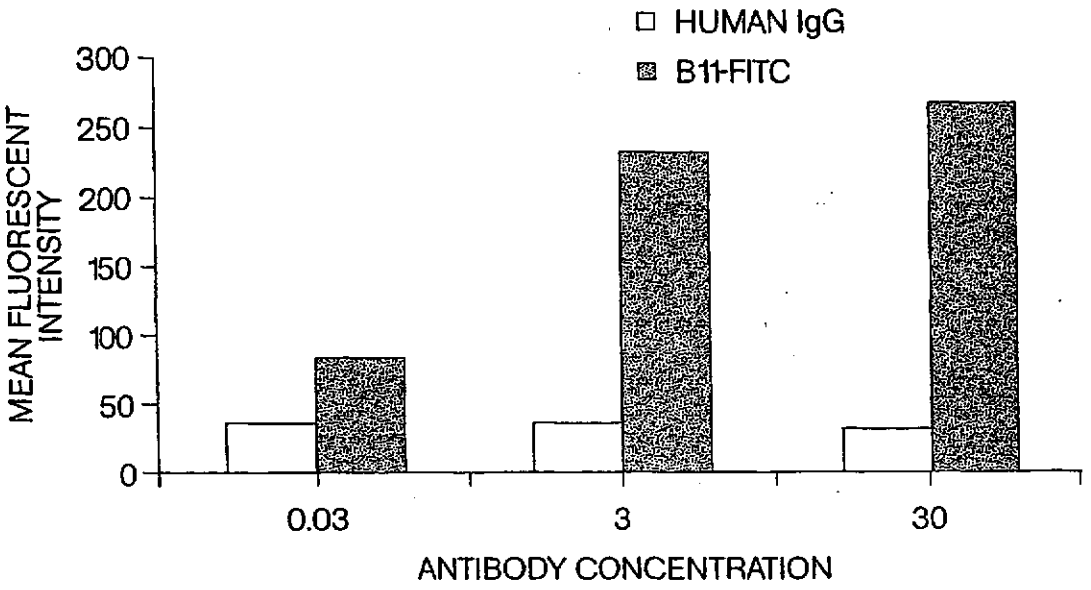

HUMAN IgG
B11-FITC
MEAN FLUORESCENT INTENSITY
300
250
200
150
100
50
0
0.03
3
30
ANTIBODY CONCENTRATION

Fig. 3

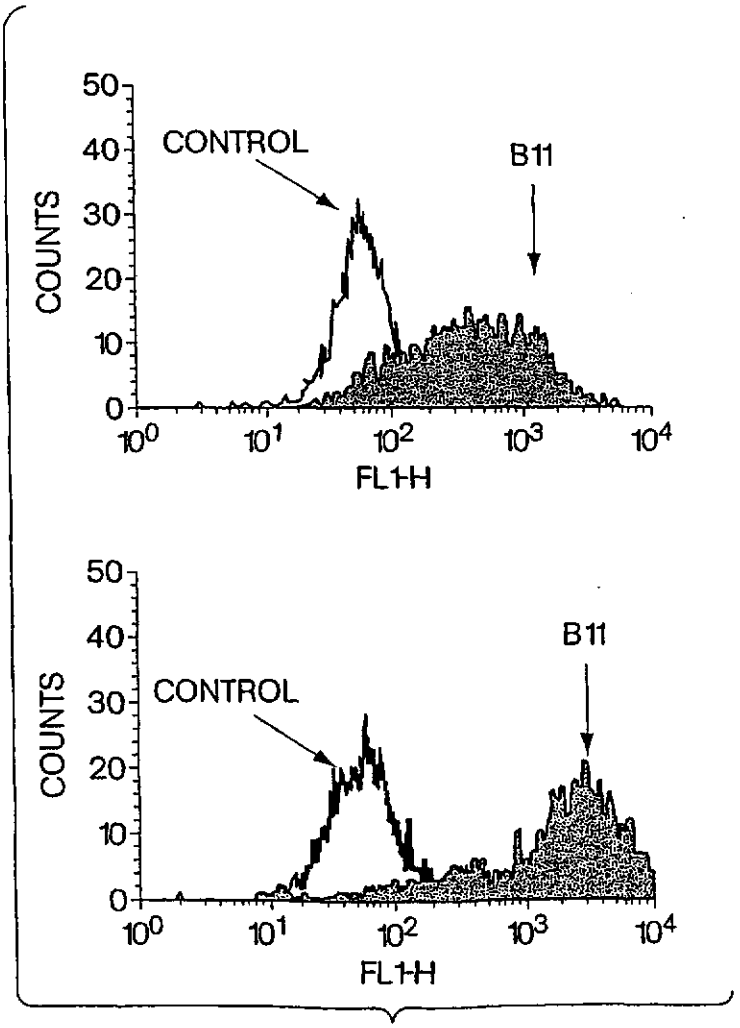

CONTROL
B11
COUNTS
50
40
30
20
10
0
10^0
10^1
10^2
10^3
10^4
FL1-H
CONTROL
B11
COUNTS
FL1-H

Fig. 4

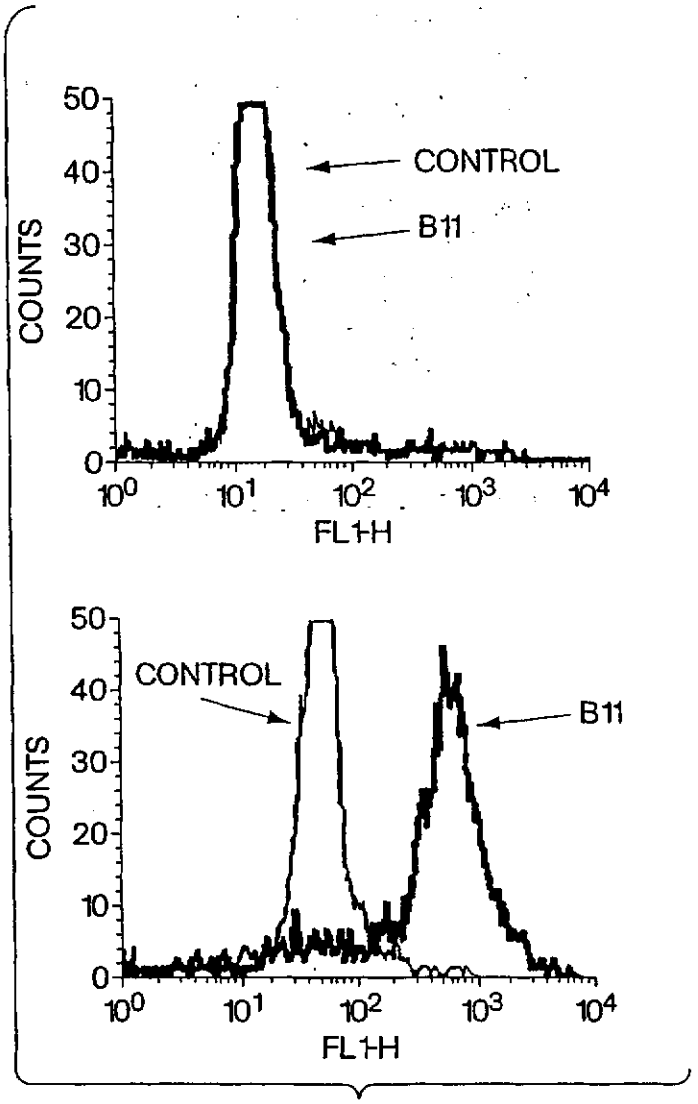

50
40
30
20
10
0
COUNTS
CONTROL
B11
10^0 10^1 10^2 10^3 10^4
FL1-H
50
40
30
20
10
0
COUNTS
CONTROL
B11
10^0 10^1 10^2 10^3 10^4
FL1-H

Fig. 5

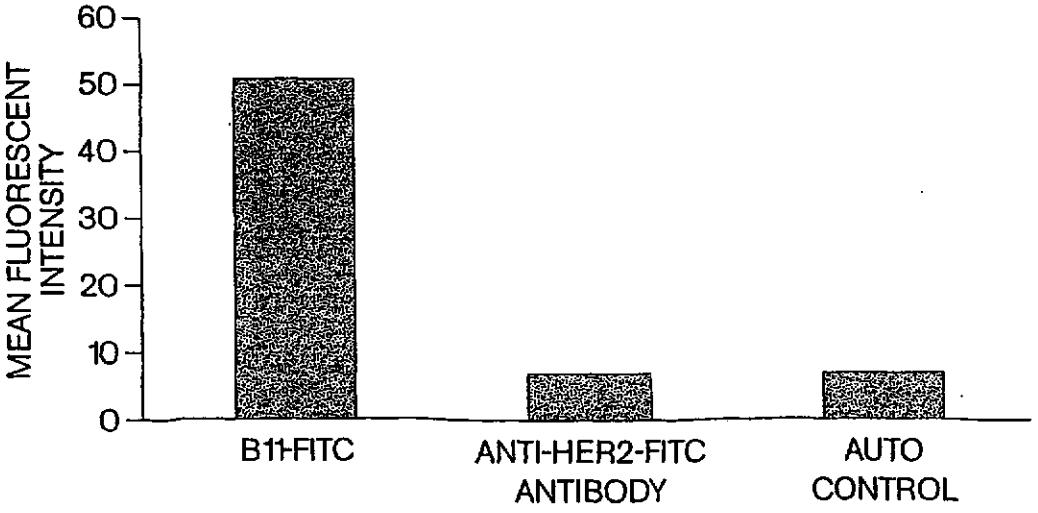

60
50
40
30
20
10
0
MEAN FLUORESCENT INTENSITY
B11-FITC
ANTI-HER2-FITC ANTIBODY
AUTO CONTROL

Fig. 6

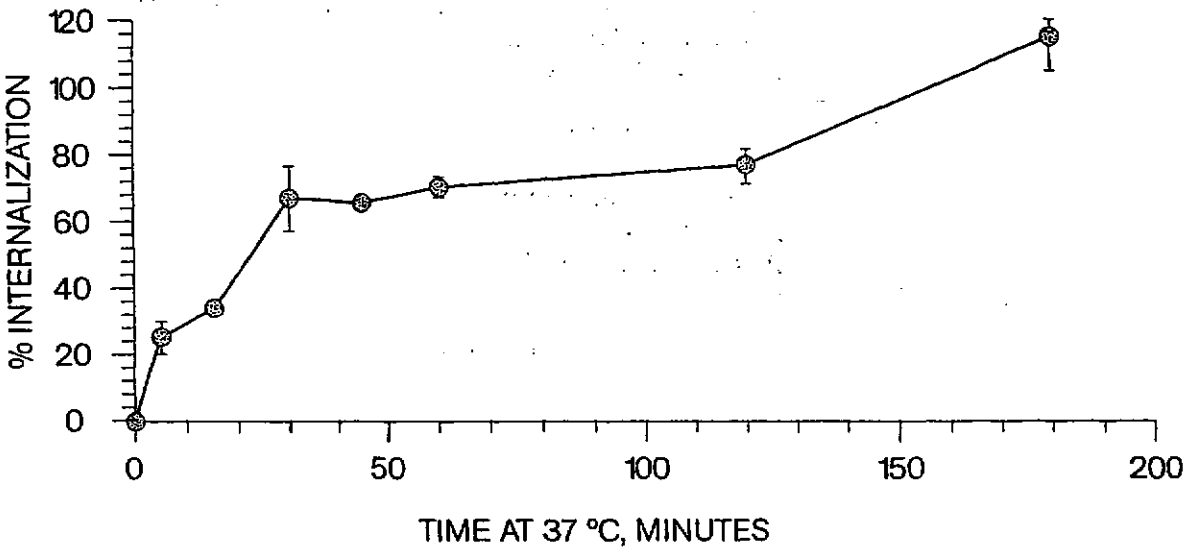

% INTERNALIZATION
120
100
80
60
40
20
0
0
50
100
150
200
TIME AT 37 °C, MINUTES

Fig. 7

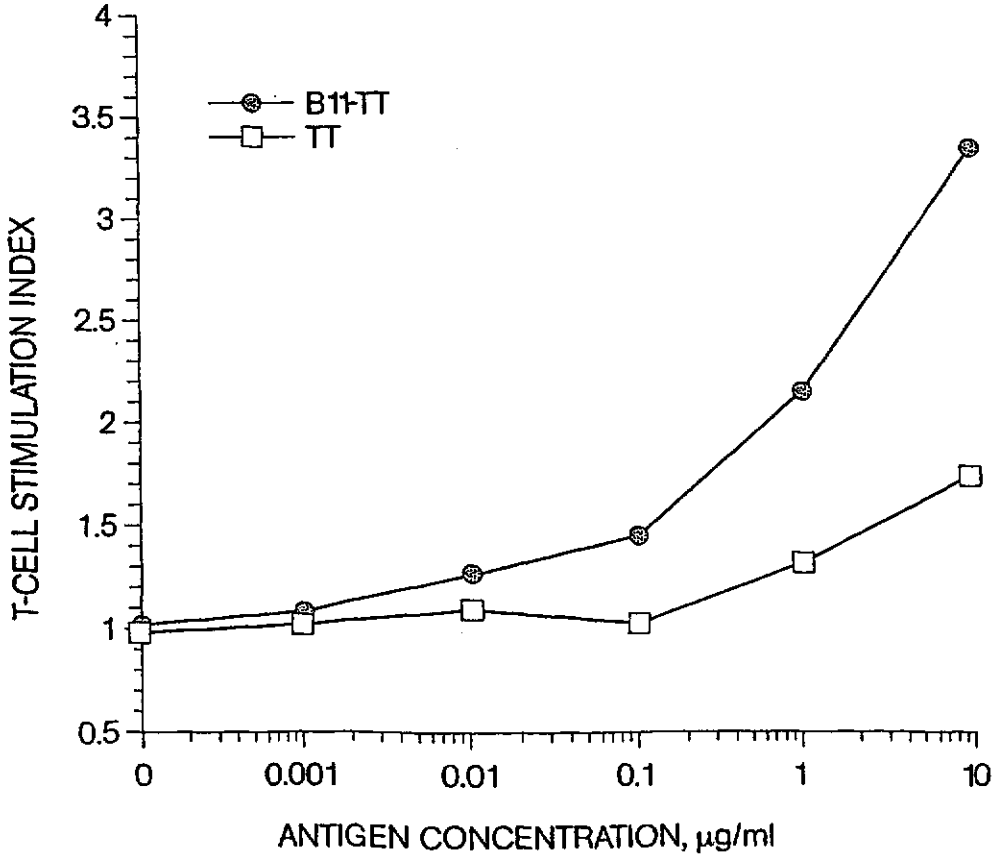

B11-TT
TT
T-CELL STIMULATION INDEX
4
3.5
3
2.5
2
1.5
1
0.5
0
0.001
0.01
0.1
1
10
ANTIGEN CONCENTRATION, µg/ml

Fig. 8

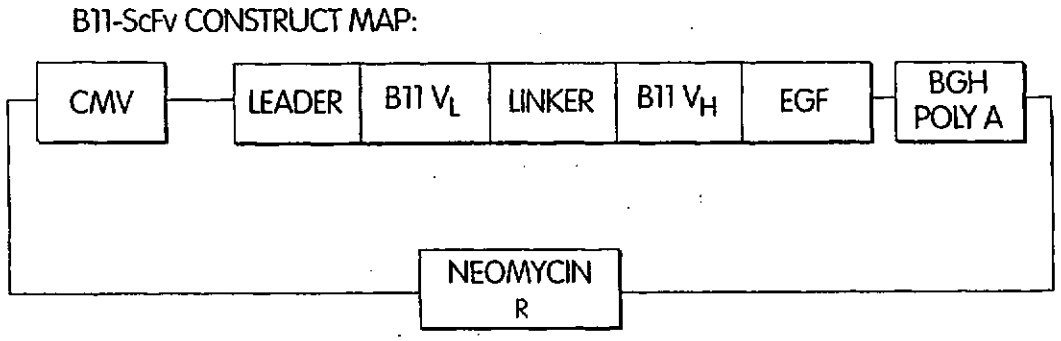

B11-ScFv CONSTRUCT MAP:
CMV
LEADER
B11 V_L
LINKER
B11 V_H
EGF
BGH POLY A
NEOMYCIN R

Fig. 9

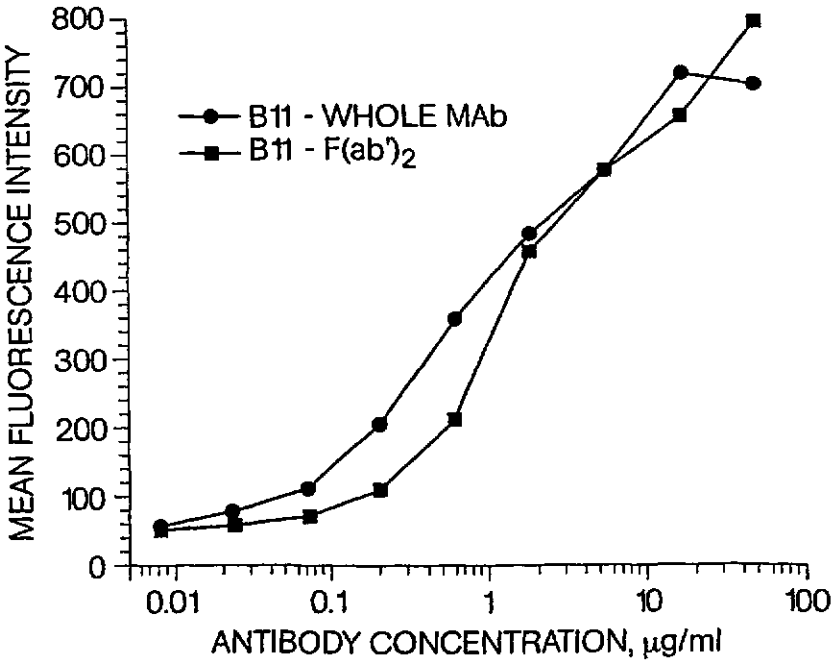

MEAN FLUORESCENCE INTENSITY
800
700
600
500
400
300
200
100
0
B11 - WHOLE MAb
B11 - F(ab')2
0.01
0.1
1
10
100
ANTIBODY CONCENTRATION, µg/ml

Fig. 10

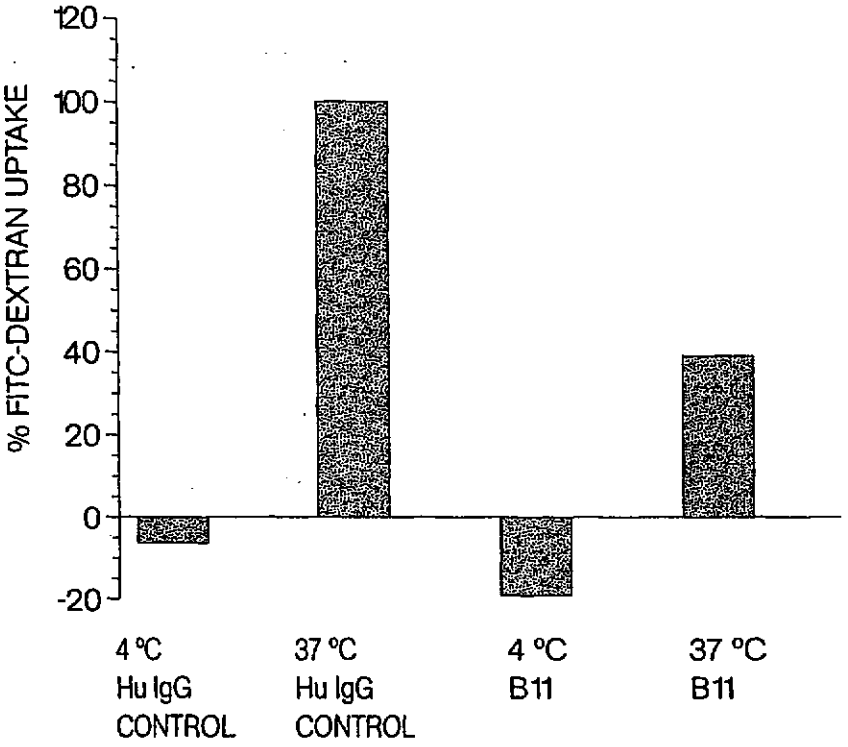

% FITC-DEXTRAN UPTAKE
120
100
80
60
40
20
0
-20
4 °C Hu IgG CONTROL
37 °C Hu IgG CONTROL
4 °C B11
37 °C B11

Fig. 11

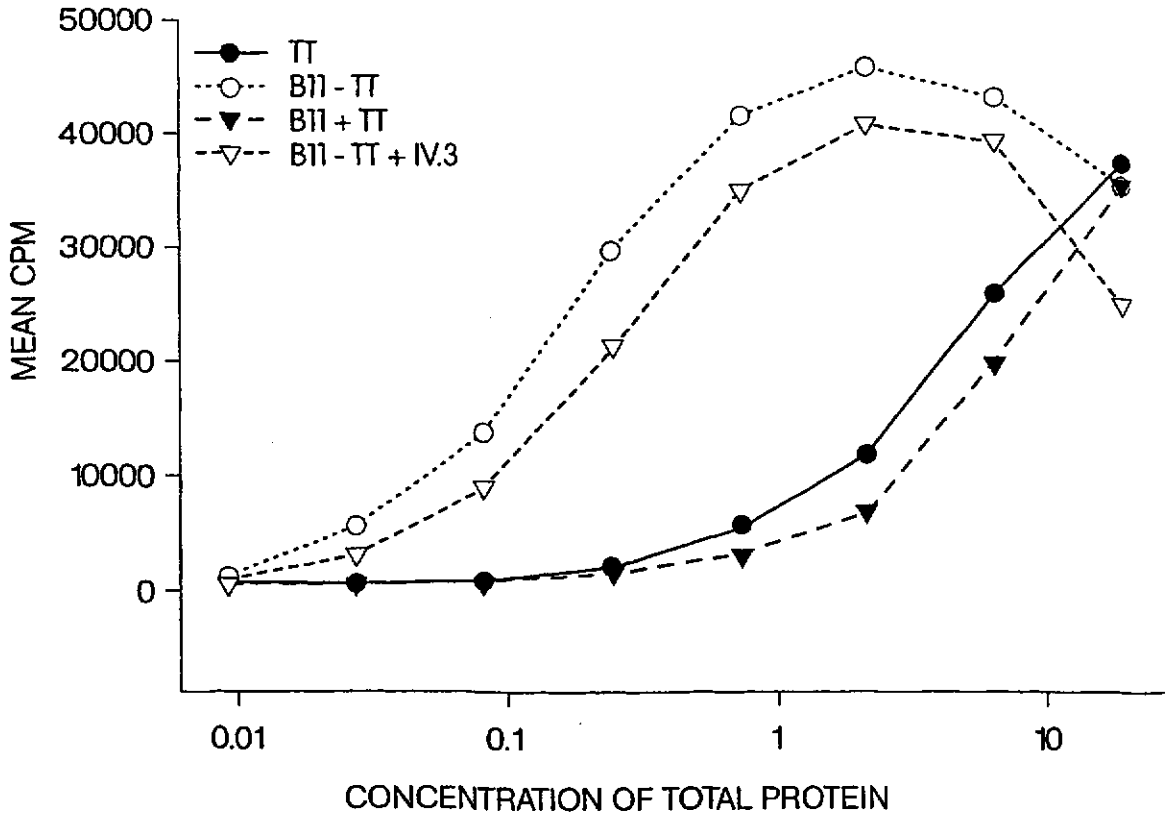

MEAN CPM
50000
40000
30000
20000
10000
0
TT
B11 - TT
B11 + TT
B11 - TT + IV.3
0.01
0.1
1
10
CONCENTRATION OF TOTAL PROTEIN

Fig. 12

B11 HuMAb SEQUENCE DATA:

B11 VL DNA:
GACATCCAGATGACCCAGTCTCCATCCTCACTGTCTGCATCTGTAGGAGACA
GAGTCACCATCACTTGTCGGGCGAGTCA
GGGTATTAGCAGGTGGTTAGCCTGGTATCAGCAGAAACCAGAGAAAGCCCCT
AAGTCCCTGATCTATGCTGCATCCAGTT
TGCAAAGTGGGGTCCCATCAAGGTTCAGCGGCAGTGGATCTGGGACAGATTT
CACTCTCACCATCAGCGGCCTGCAGCCT
GAAGATTTTGCAACTTATTACTGCCAACAGTATAATAGTTACCCTCGGACGTT
CGGCCAAGGGACCAAGGTGGAAATCAA
A

B11 VL PROTEIN:
DIQMTQSPSSLSASVGDRVTITCRASQGISRWLAWYQQKPEKAPKSLIYAASSLQ
SGVPSRFSGSGSGTDFTLTISGLQP
EDFATYYCQQYNSYPRTFGQGTKVEIK

B11 VH DNA:
GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCT
CTGAGGATCTCCTGTAAGGGTTCTGGAGA
CAGTTTTACCACCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGC
CTGGAGTGGATGGGGATCATCTATCCTG
GTGACTCTGATACCATATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCA
GCCGACAAGTCCATCAGCACCGCCTAC
CTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTACGA
GAGGGGACCGGGGCGTTGACTACTGGGG
CCAGGGAACCCTGGTCACCGTCTCCTCA

B11 VH PROTEIN:
EVQLVQSGAEVKKPGESLRISCKGSGDSFTTYWIGWVRQMPGKGLEWMGIIYPG
DSDTIYSPSFQGQVTISADKSISTAY
LQWSSLKASDTAMYYCTRGDRGVDYWGQGTLVTVSS

Fig. 13