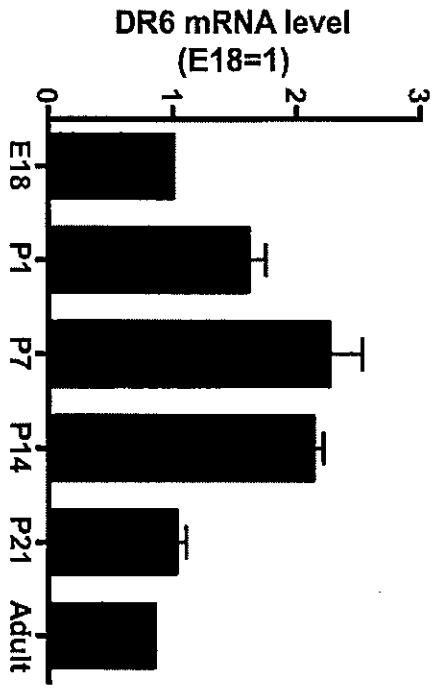
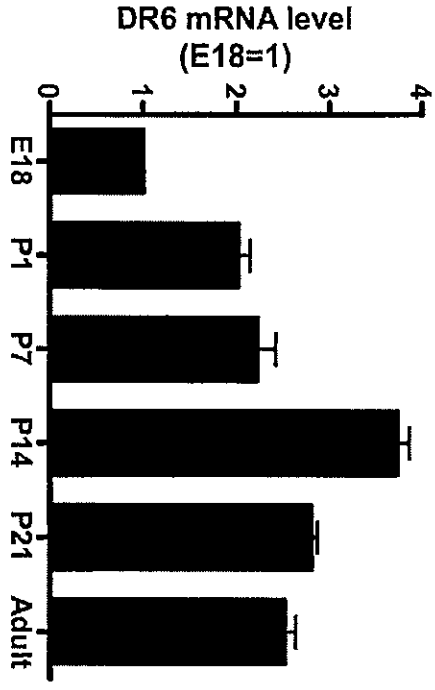


DR6 level in developing brain
(by DR6 absoulte/18S absolute)

Fig. 1A



DR6 level in developing spinal cord
(by DR6 absoulte/18S absolute)

Fig. 1B

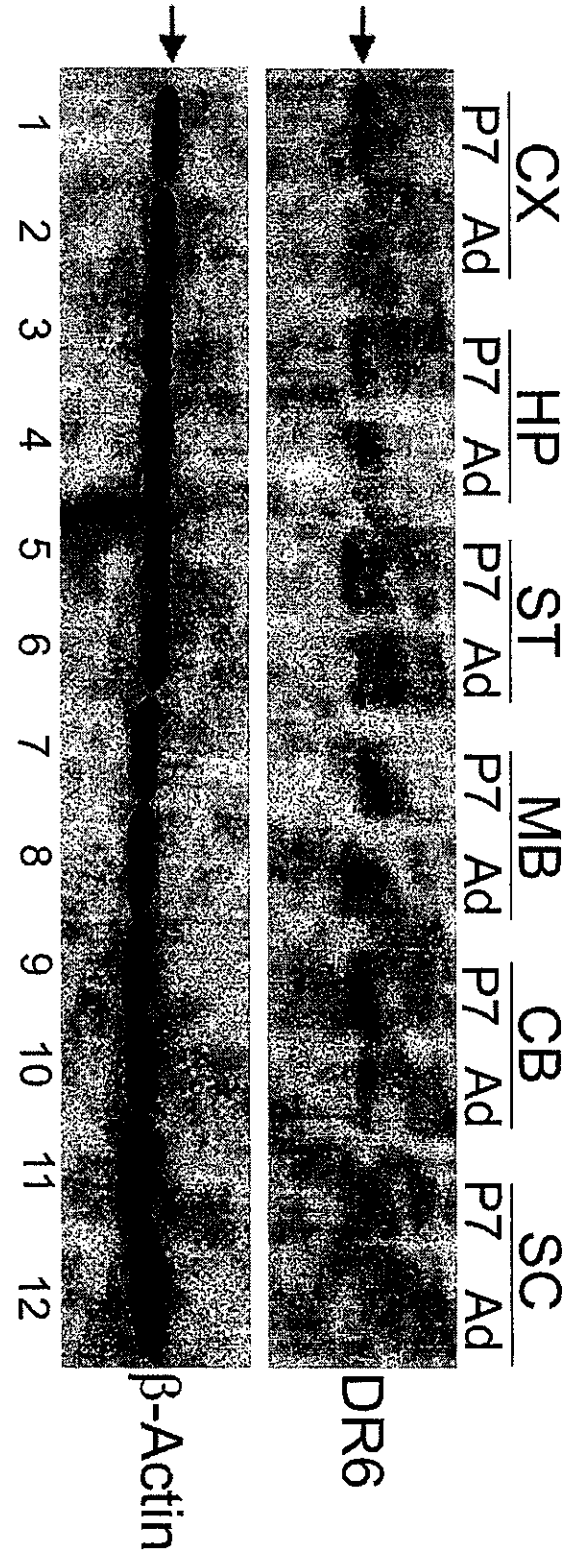

CX
P7 Ad
HP
P7 Ad
ST
P7 Ad
MB
P7 Ad
CB
P7 Ad
SC
P7 Ad
1 2 3 4 5 6 7 8 9 10 11 12
DR6
β-Actin

Fig. 1C

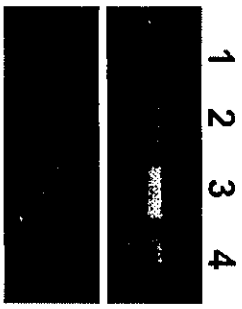

1 2 3 4
DR6
GAPDH
1. OPCs
2. Cortical neurons
3. Microglias
4. Astrocytes

Fig. 1D

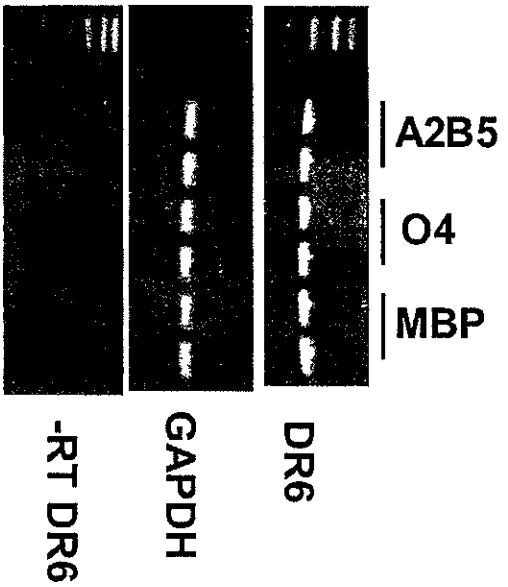

RTPCR
A2B5
O4
MBP
DR6
GAPDH
-RT DR6

Fig. 2A

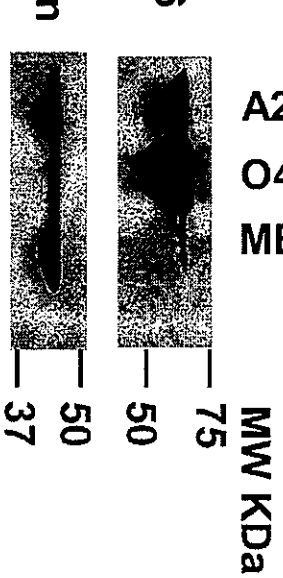

Western
Oligodendrocyte
A2B5
O4
MBP
DR6
actin
MW KDa
75
50
50
37

Fig. 2B

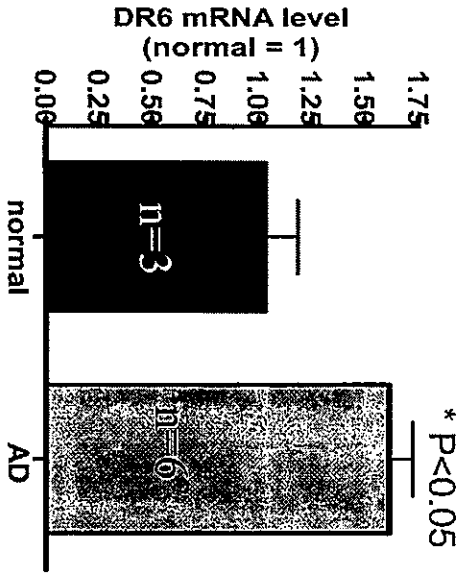

Increased DR6 mRNA levels
in Alzheimer's disease
DR6 mRNA level
(normal = 1)
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
n=3
n=6
* P<0.05
normal
AD

Fig. 3

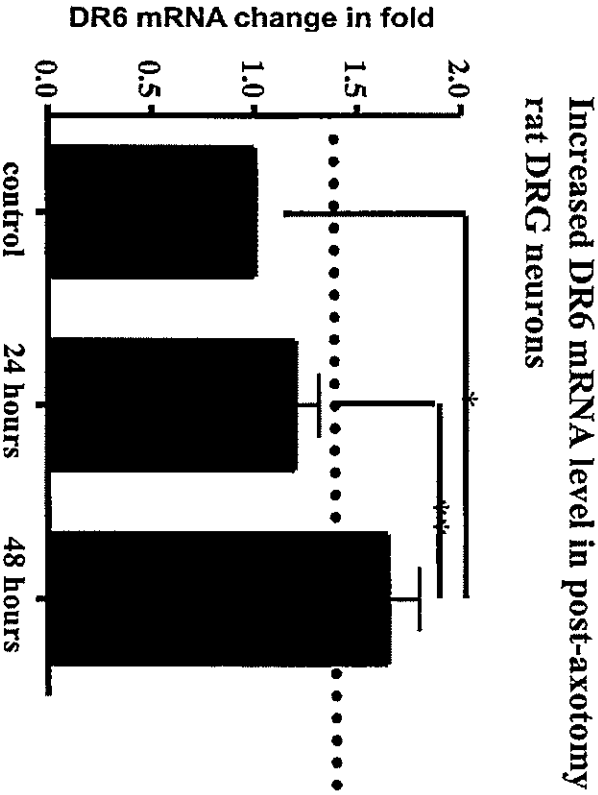

Increased DR6 mRNA level in post-axotomy
rat DRG neurons
DR6 mRNA change in fold
0.0
0.5
1.0
1.5
2.0
control
24 hours
48 hours
time post axotomy
** P<0.01
* P<0.05

Fig. 4

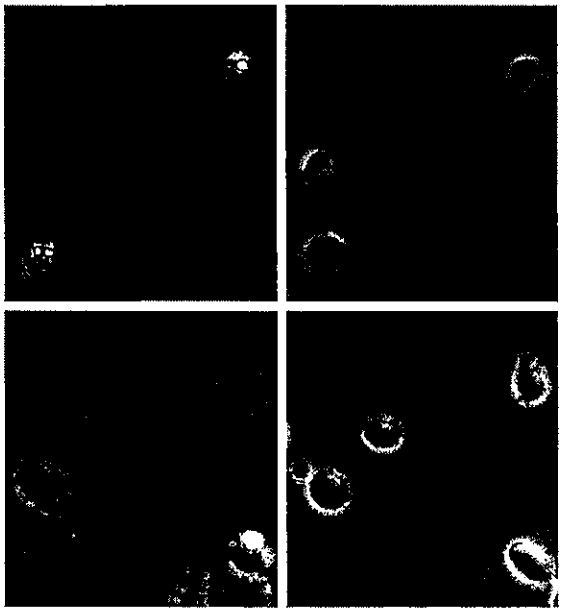


Fig. 5A

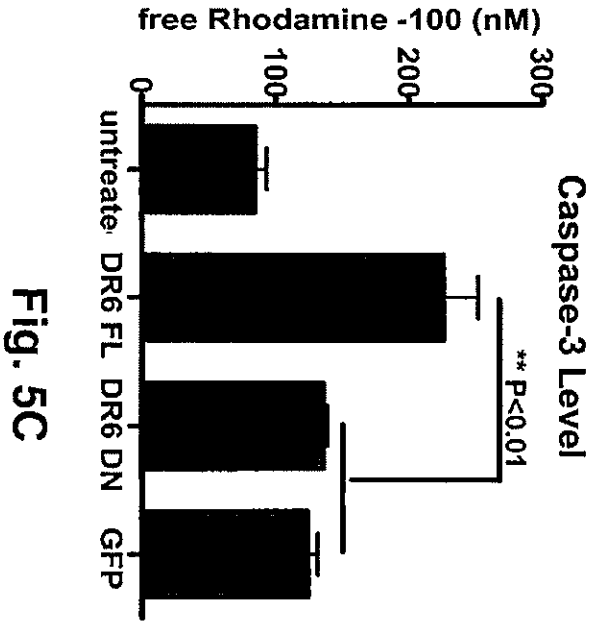


Fig. 5C

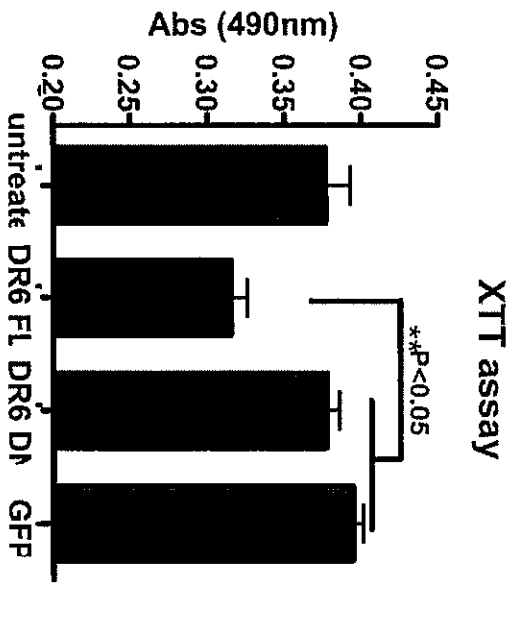


Fig. 5B

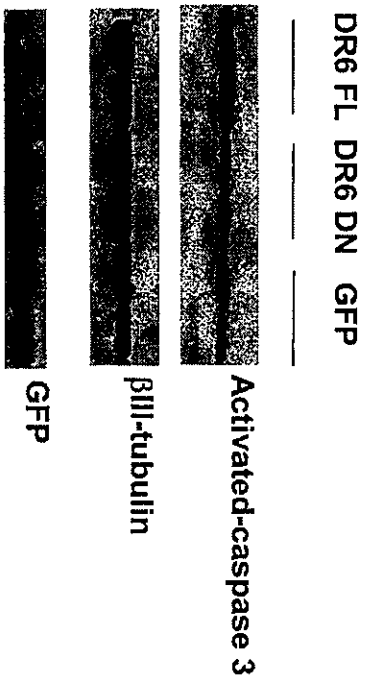


Fig. 5D

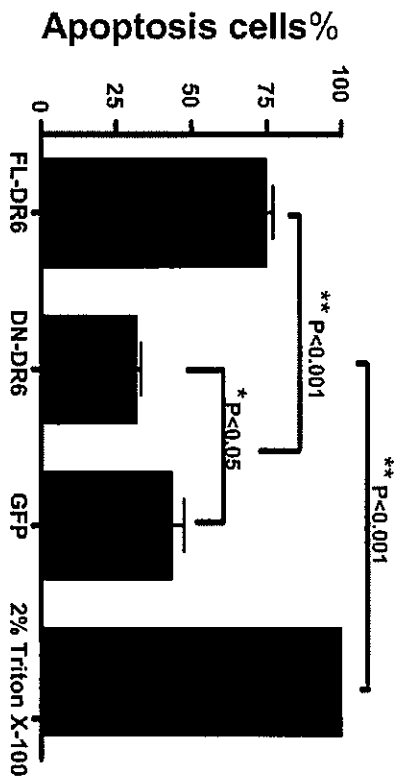

Apoptosis cells%
0
25
50
75
100
FL-DR6
DN-DR6
GFP
2% Triton X-100
** P<0.001
* P<0.05
** P<0.001

Fig. 6A

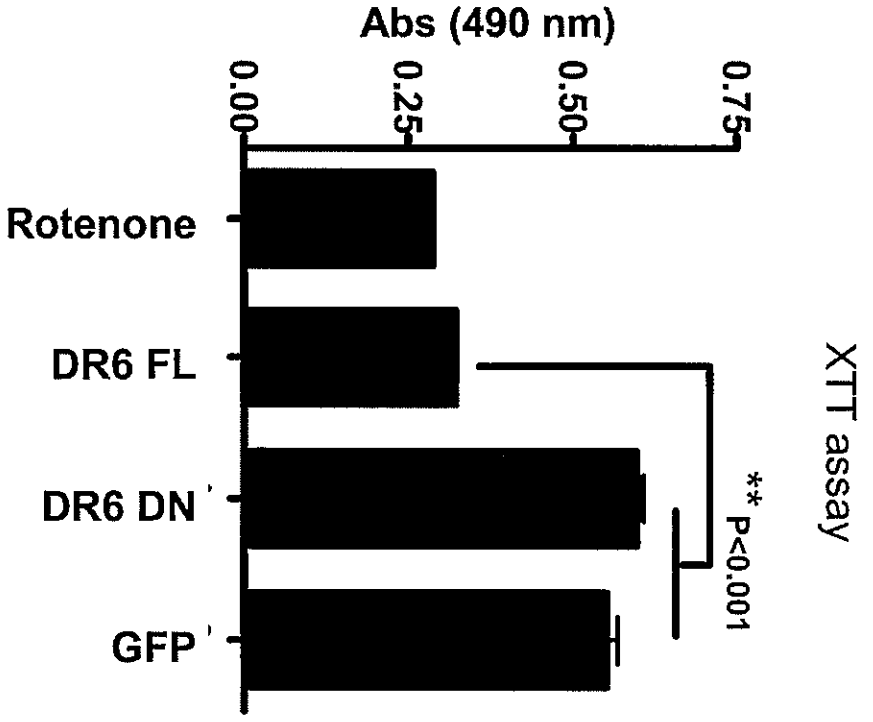

Abs (490 nm)
0.00
0.25
0.50
0.75
Rotenone
DR6 FL
DR6 DN
GFP
** P<0.001
XTT assay

Fig. 6B

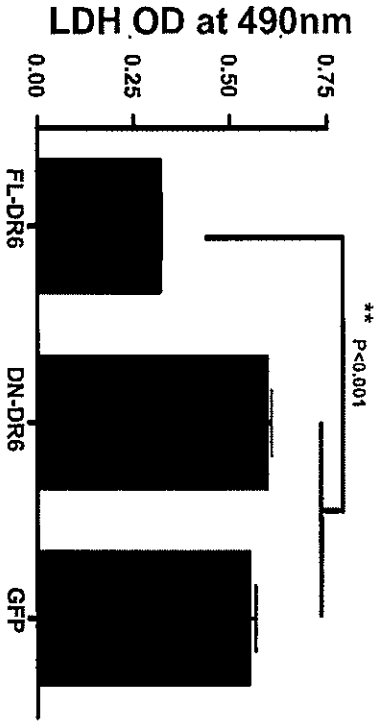


Fig. 6C

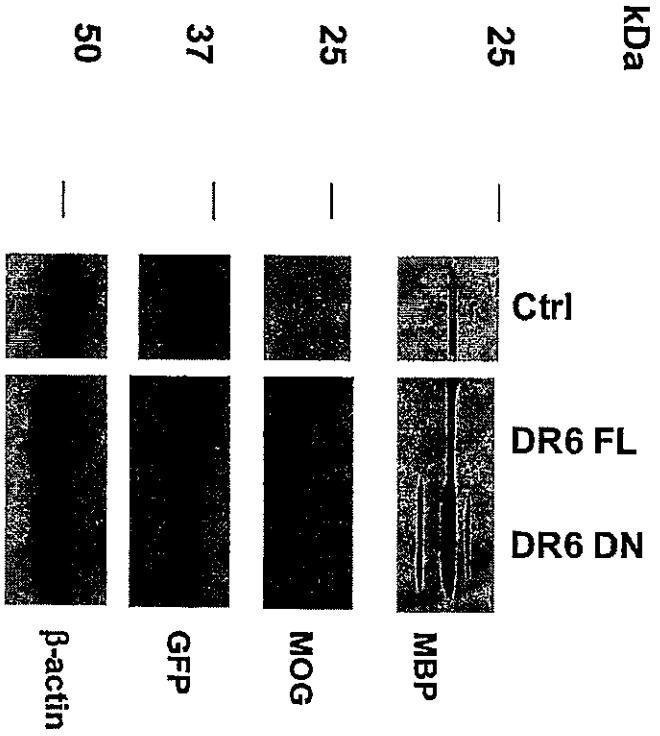

kDa
25
25
37
50
Ctrl
DR6 FL
DR6 DN
MBP
MOG
GFP
β-actin

Fig. 7A

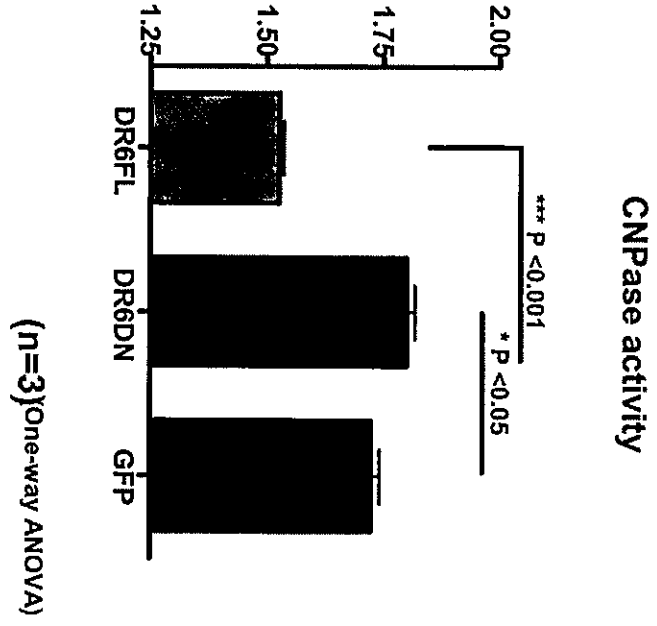

CNPase activity
2.00
1.75
1.50
1.25
*** P <0.001
* P <0.05
DR6FL
DR6DN
GFP
(n=3) One-way ANOVA

Fig. 7B

Fig. 8A

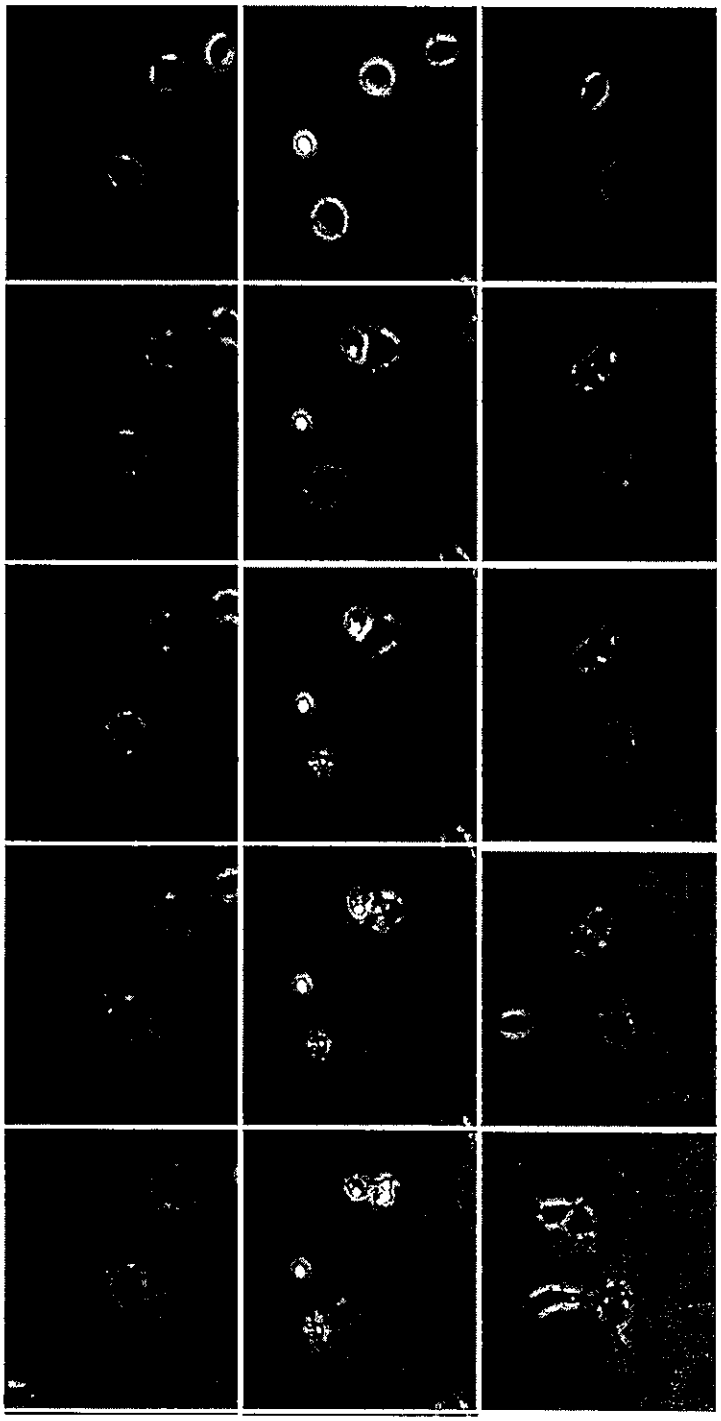
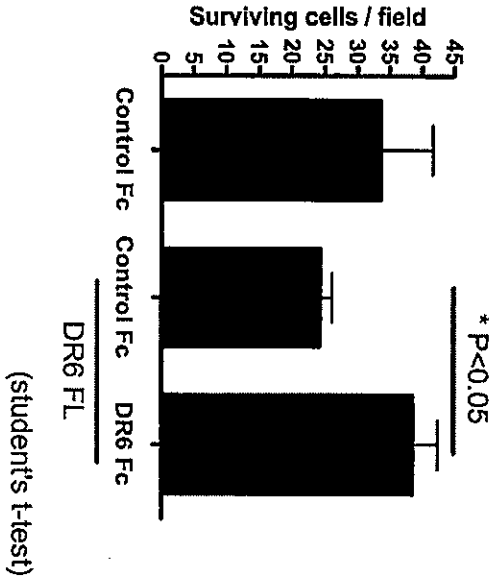

Ctrl-Fc
DR6 FL Ctrl- Fc
DR6 FL DR6- Fc
0 hour
28 hours
34 hours
42 hours
92 hours

Fig. 8B


Surviving cells / field
0
5
10
15
20
25
30
35
40
45
Control Fc
Control Fc
DR6 Fc
DR6 FL
* P<0.05
(student's t-test)

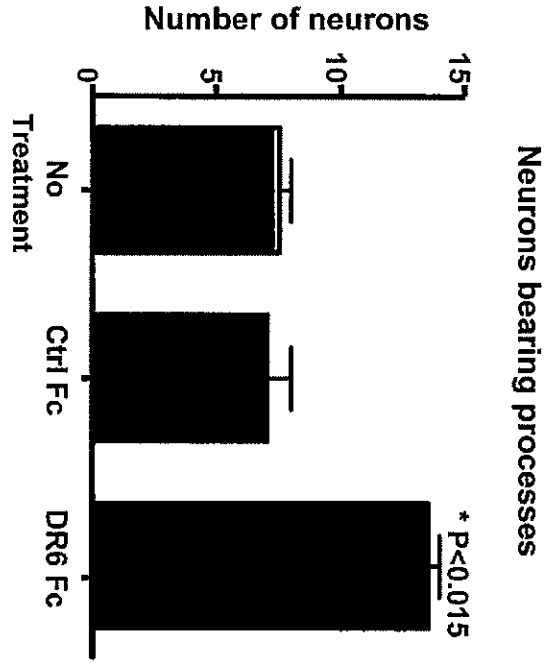

Neurons bearing processes
Number of neurons
0
5
10
15
No Treatment
Ctrl Fc
DR6 Fc
* P<0.015

Fig. 9A

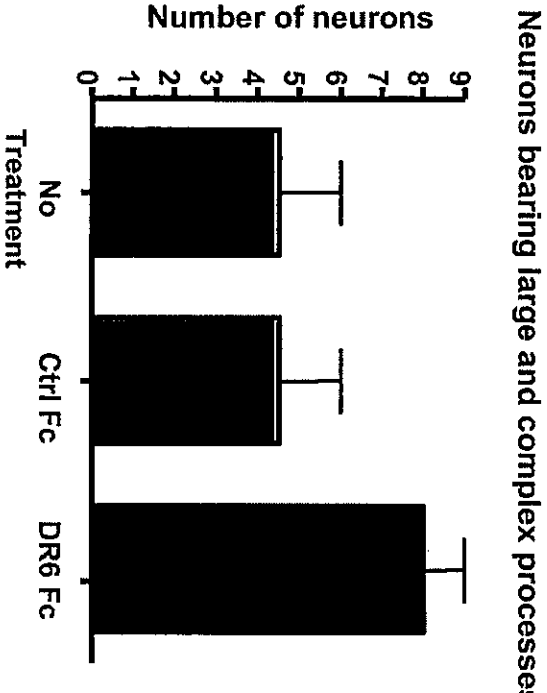

Neurons bearing large and complex processes
Number of neurons
0
1
2
3
4
5
6
7
8
9
No Treatment
Ctrl Fc
DR6 Fc

Fig. 9B

Fig. 10B

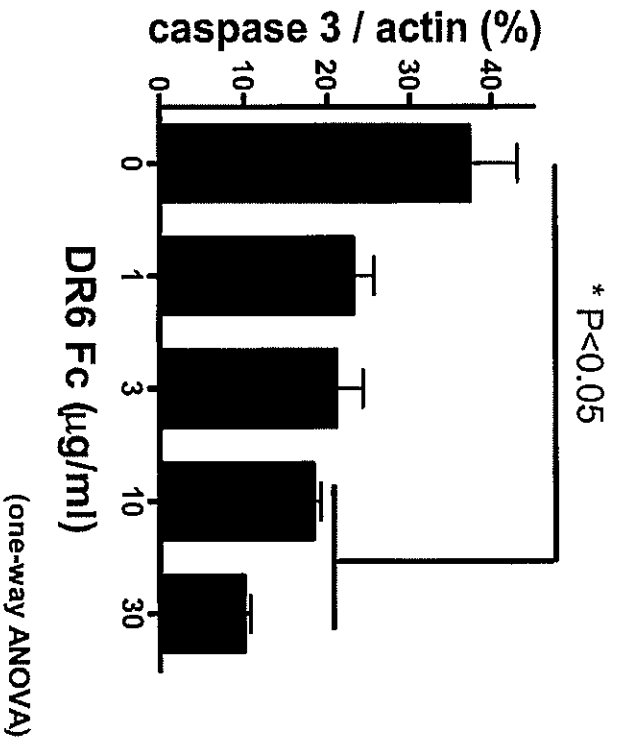
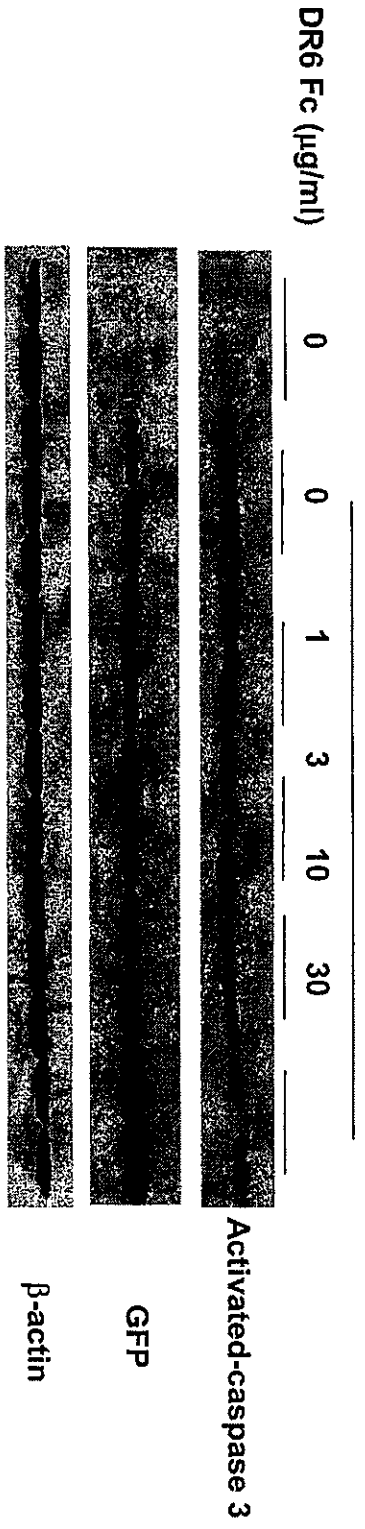


Fig. 10A



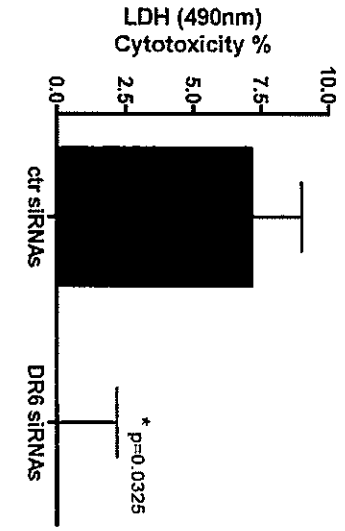


Fig. 11A

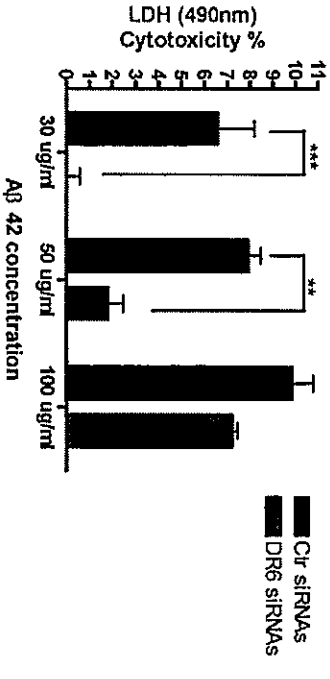


Fig. 11B

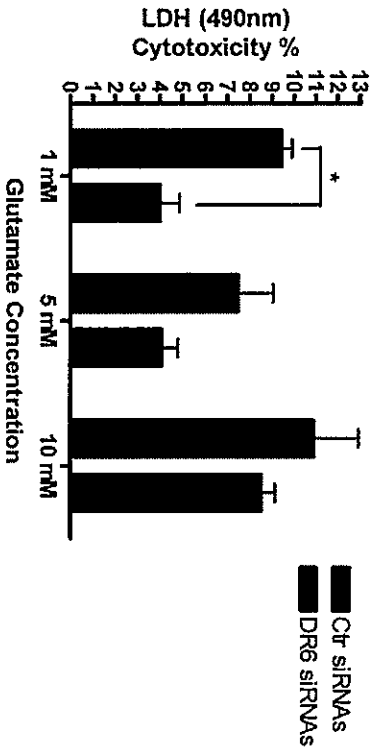


Fig. 11C

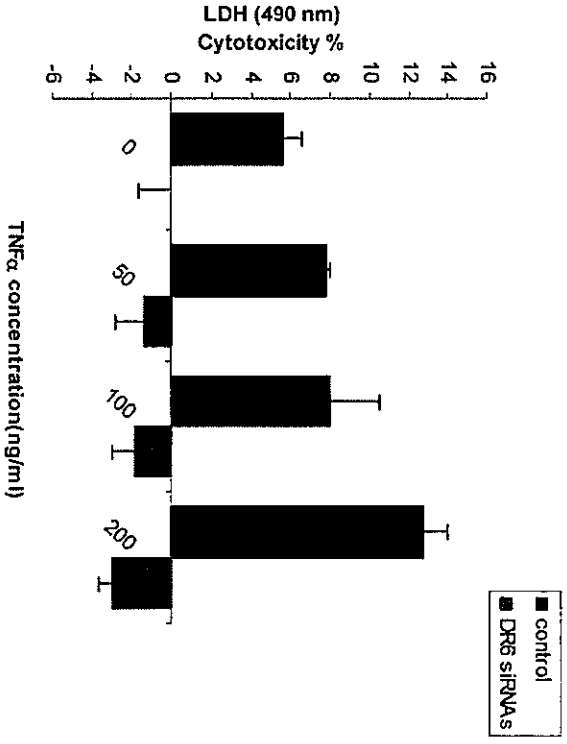


Fig. 11D

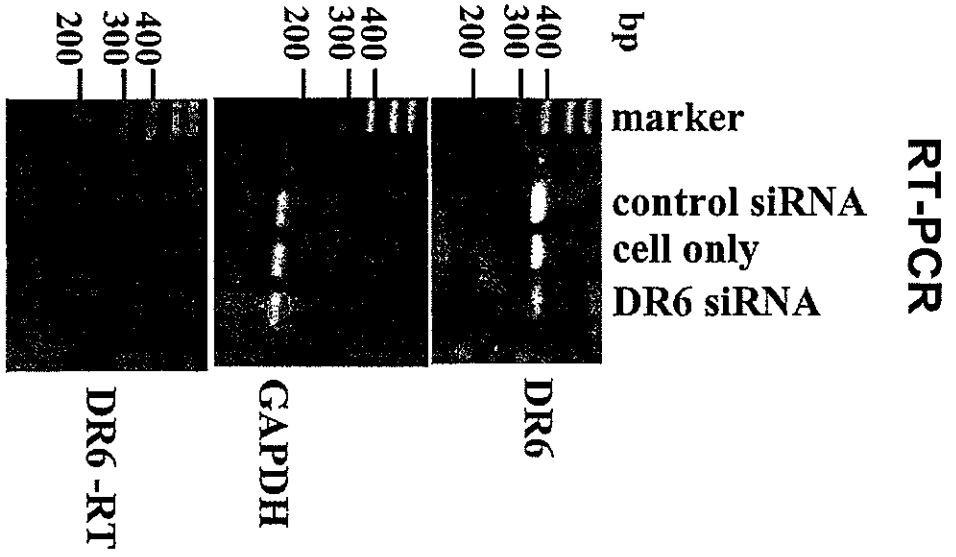


Fig. 12A

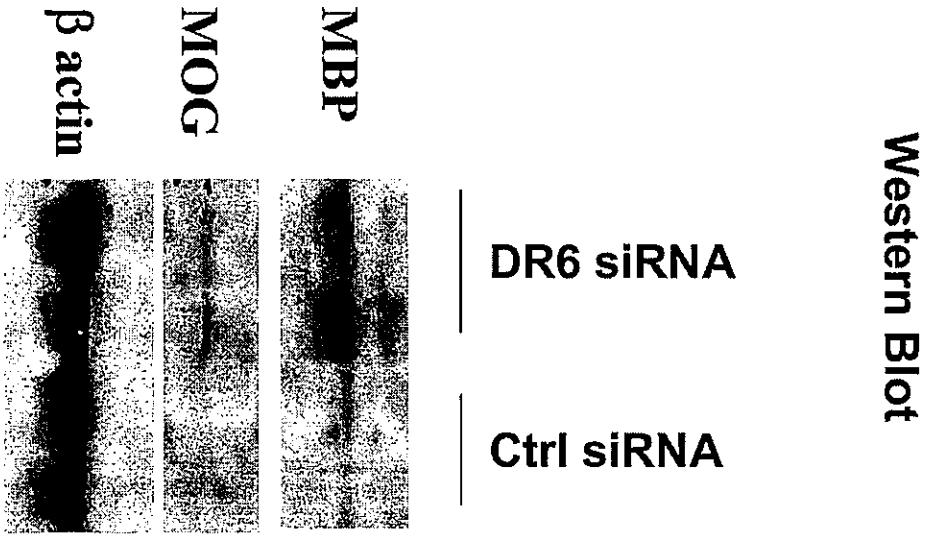


Fig. 12B

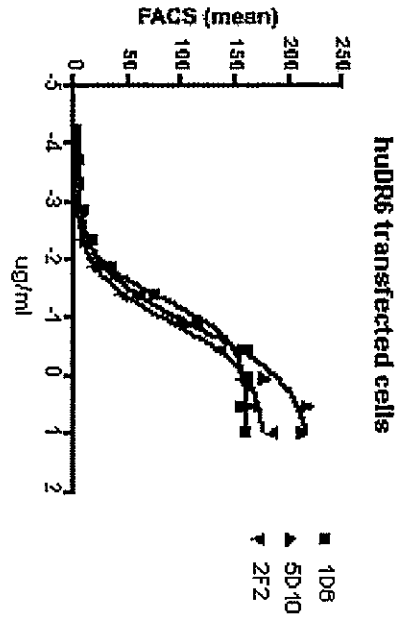


Fig. 13B

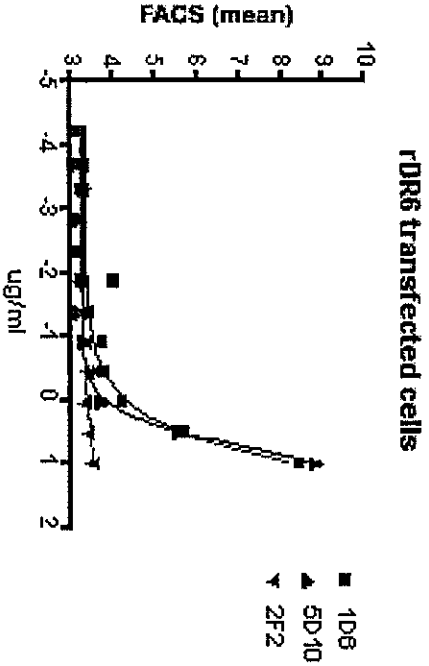


Fig. 13A

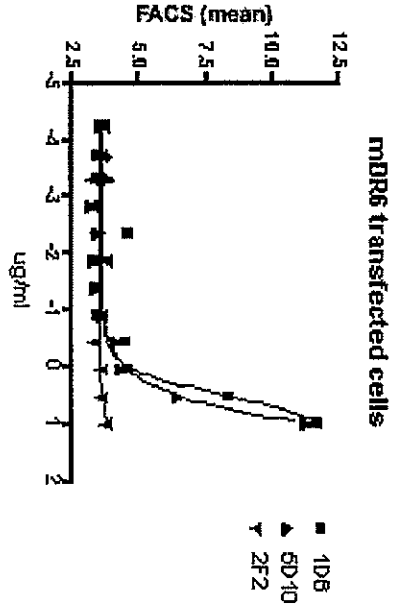


Fig. 13C

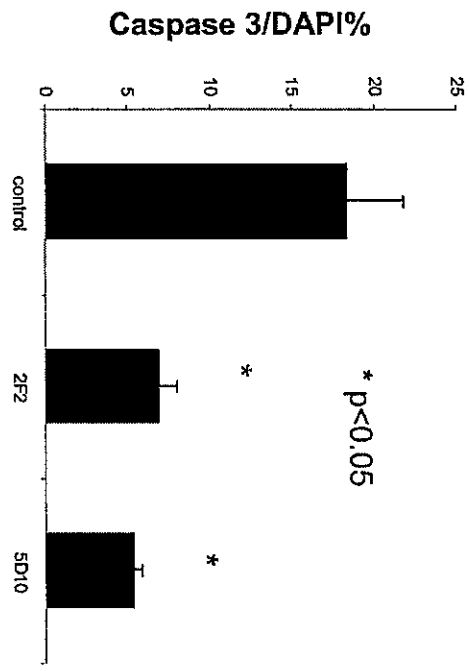


Fig. 14A

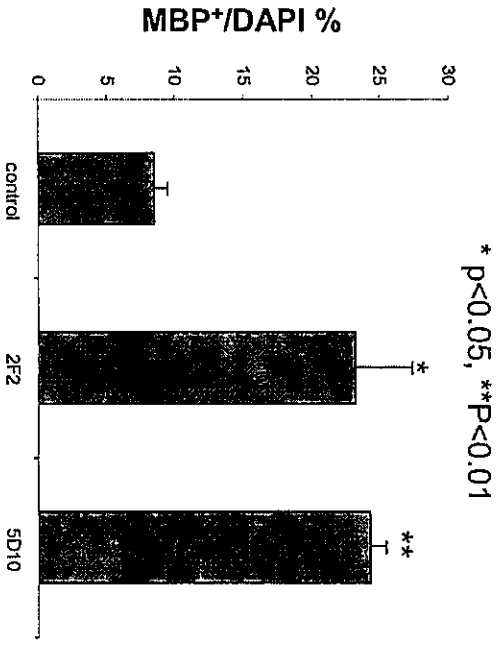


Fig. 14B

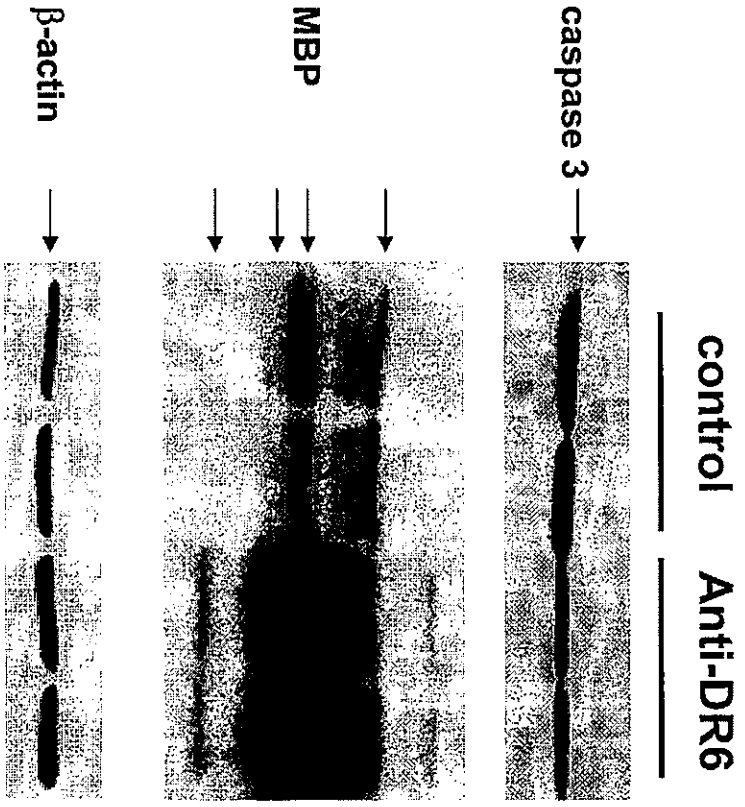


Fig. 14C

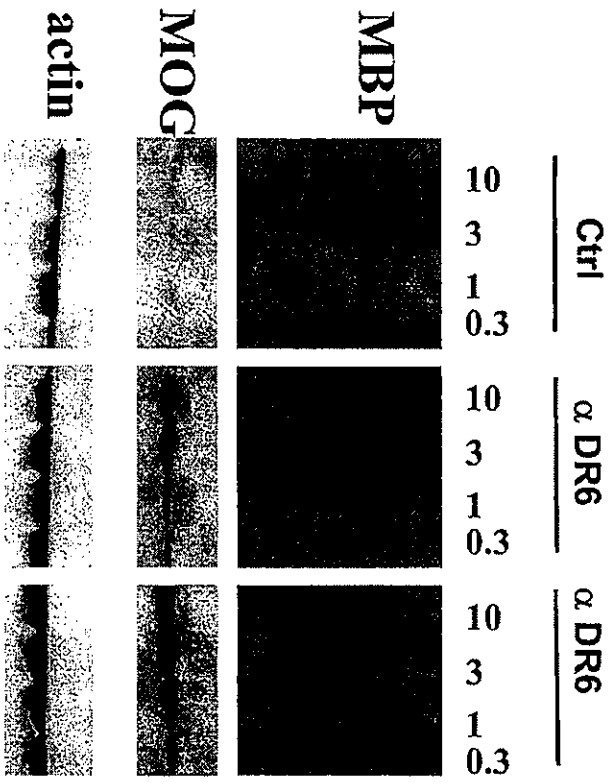
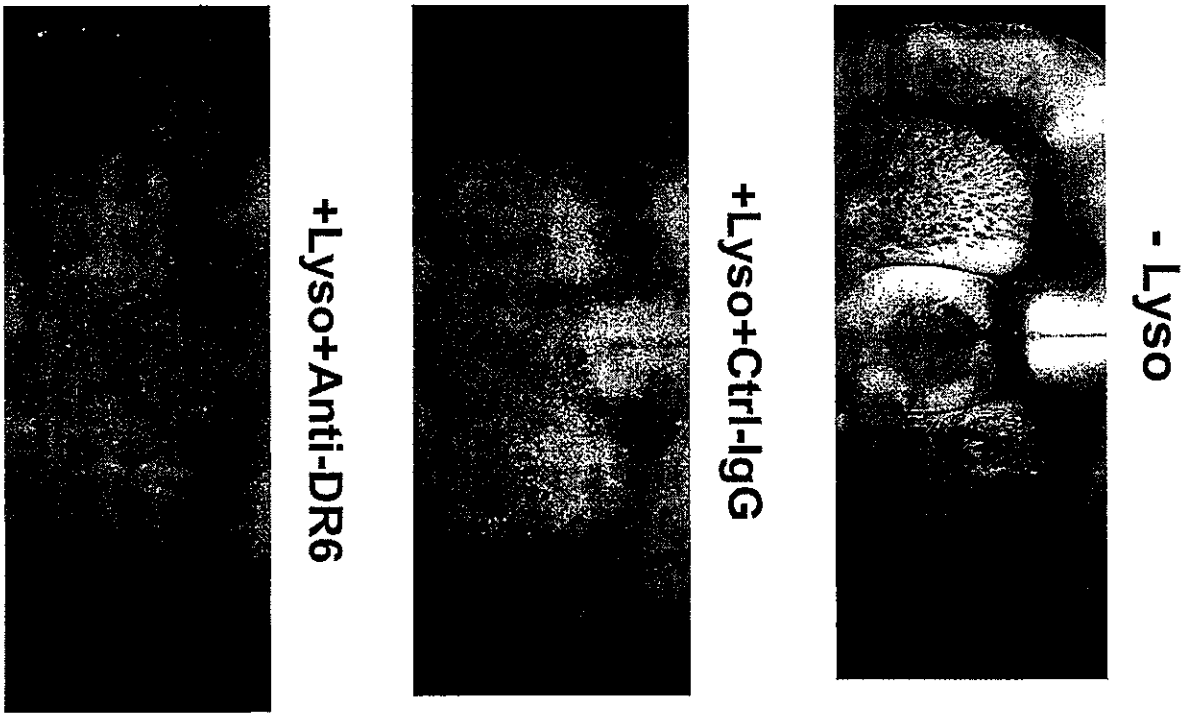


Fig. 15

Fig. 16A



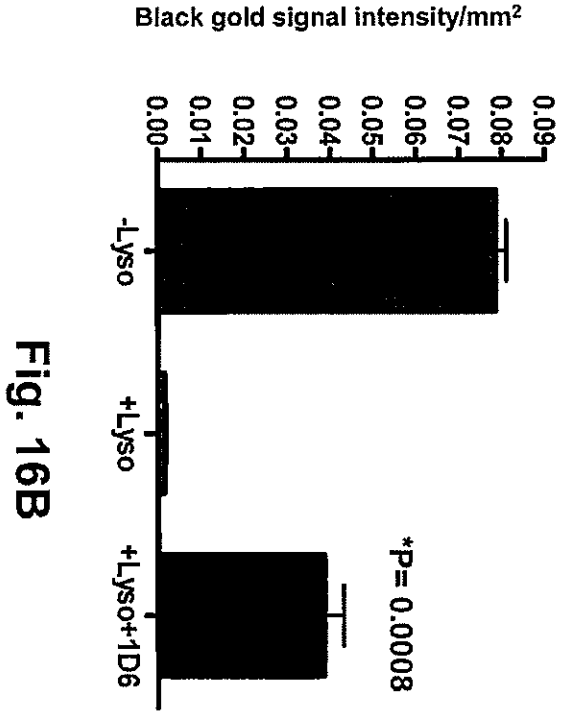


Fig. 16B

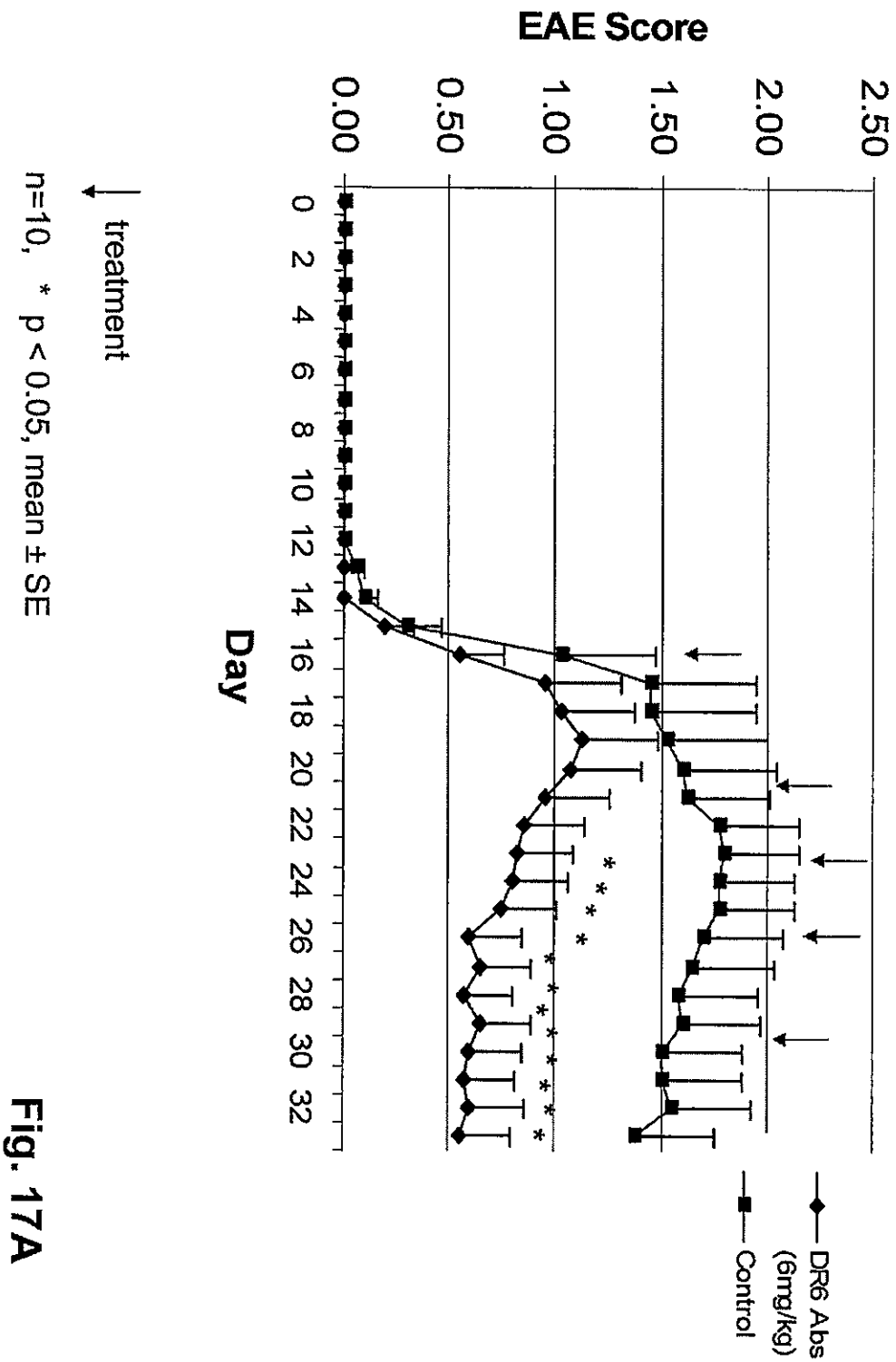

EAE Score
2.50
2.00
1.50
1.00
0.50
0.00
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32
Day
DR6 Abs (6mg/kg)
Control
treatment
n=10, * p < 0.05, mean ± SE

Fig. 17A

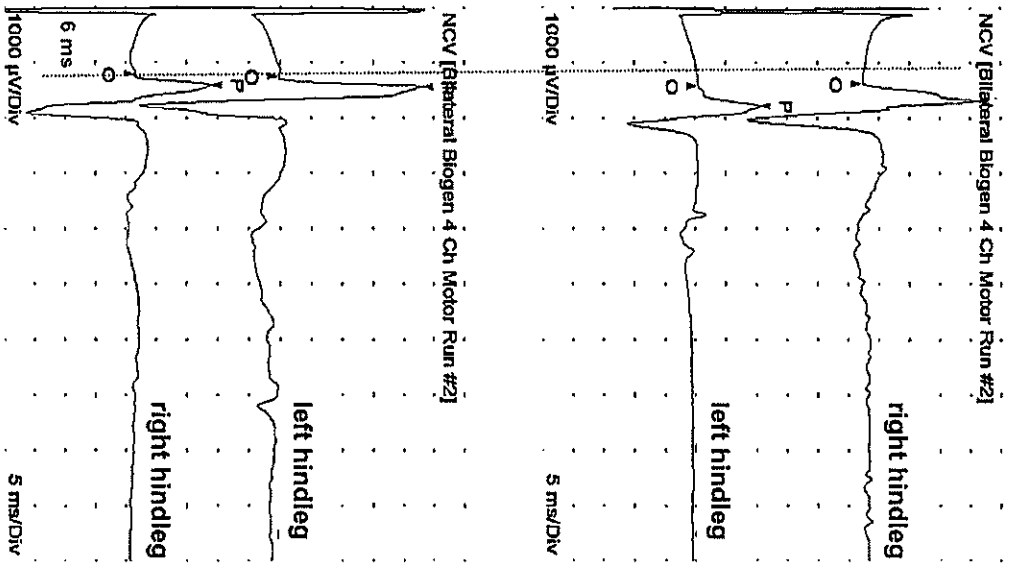

Control
NCV [Bilateral Biogen 4 Ch Motor Run #2]
1000 µV/Div
5 ms/Div
right hindleg
left hindleg
6.8 ms (n=6)
7 ms
DR6 Abs
NCV [Bilateral Biogen 4 Ch Motor Run #2]
1000 µV/Div
6 ms
5 ms/Div
left hindleg
right hindleg
6.2ms
6 ms (n=10)

Fig. 17B

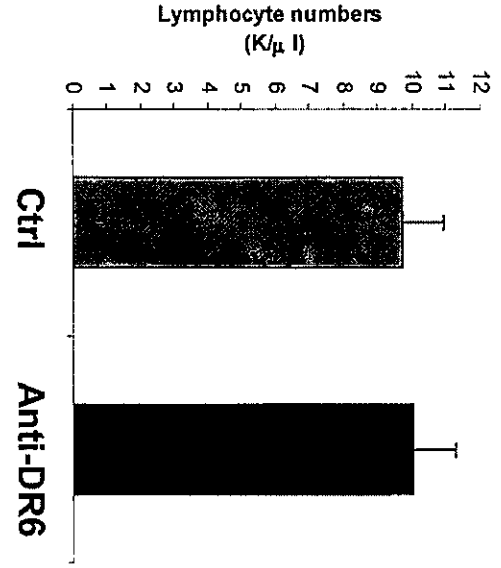


Fig. 18A

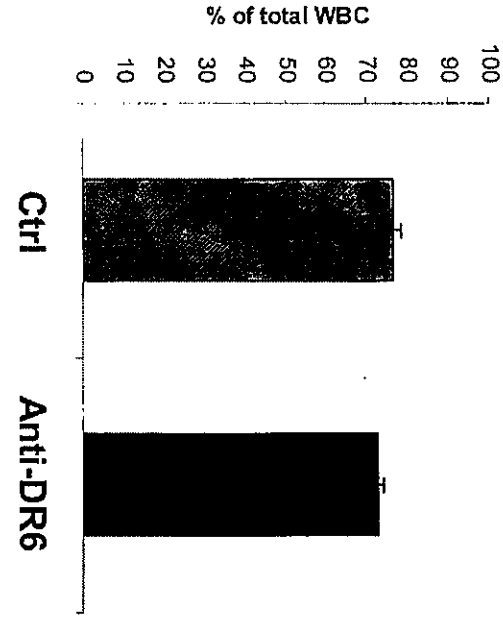


Fig. 18B

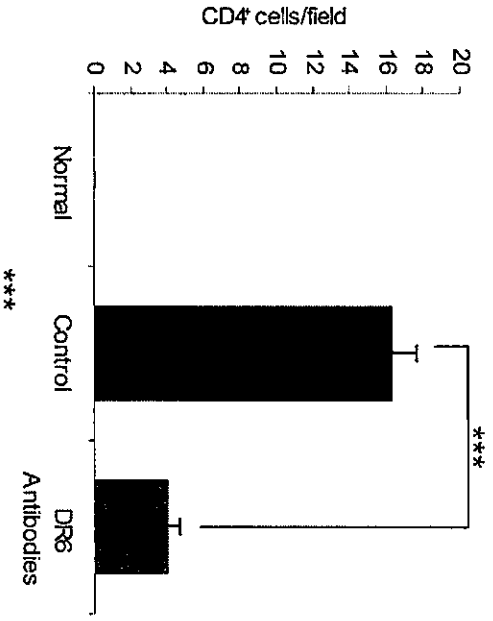
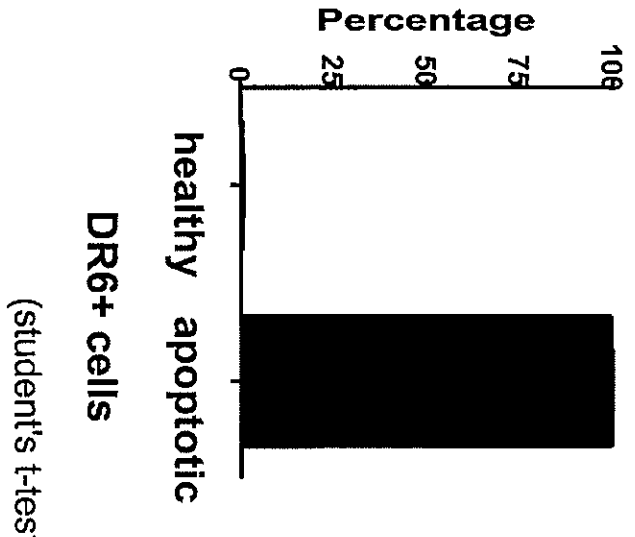

CD4+ cells/field
0
2
4
6
8
10
12
14
16
18
20
Normal
Control
DR6 Antibodies
***
***
p<0.0001

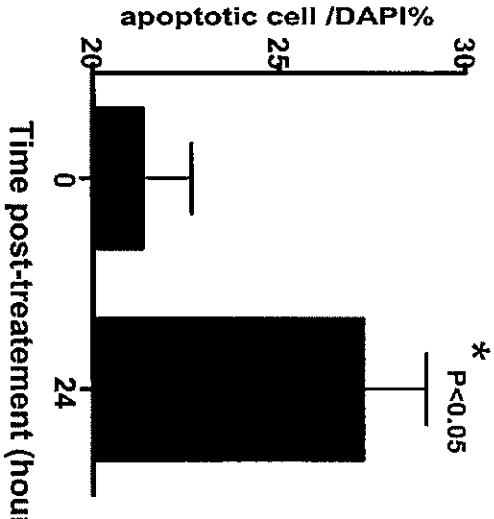
Fig. 19



DR6+ cells

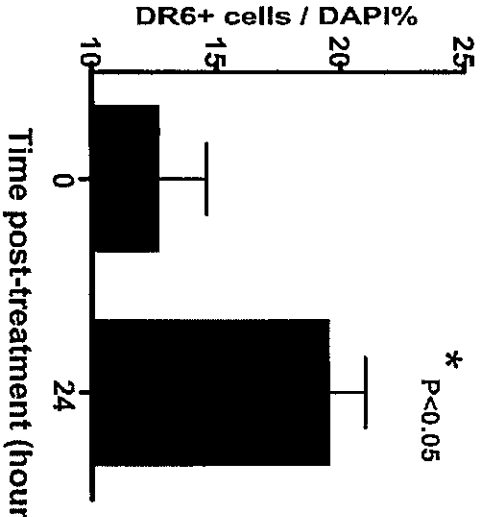
(student's t-test)

Fig. 20A



(student's t-test)

Fig. 20B



(student's t-test)

Fig. 20C

Fig. 21A

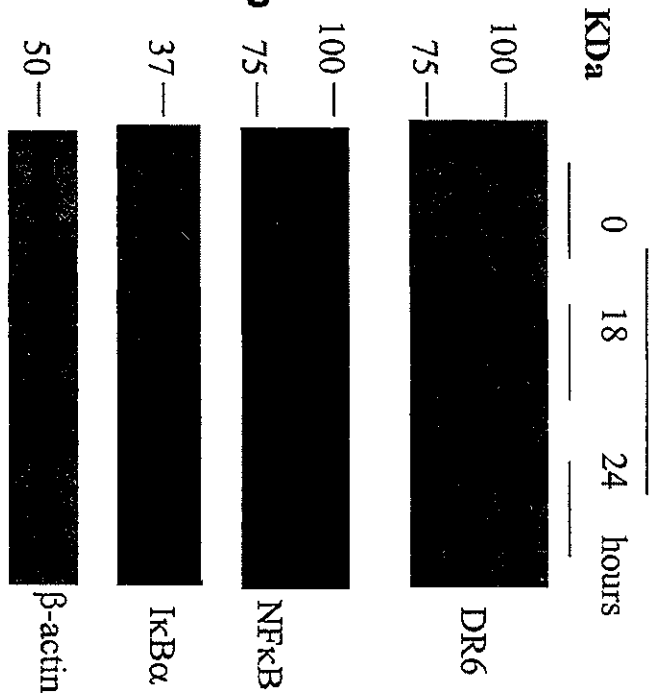


Fig. 21B

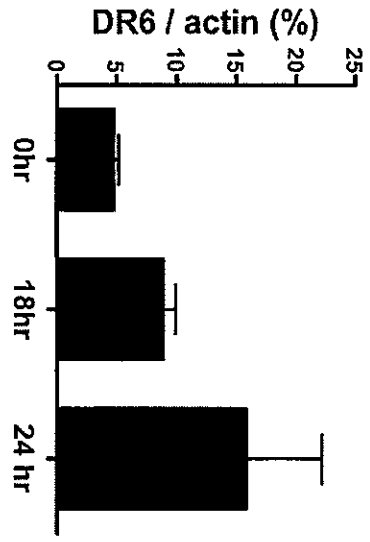


Fig. 21C

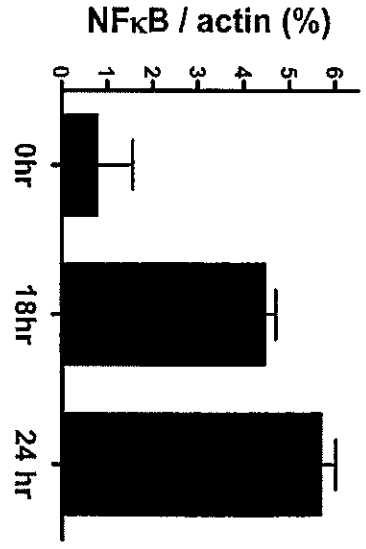


Fig. 21D

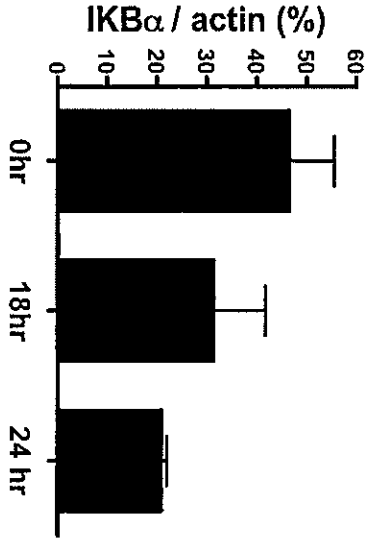


Fig. 22A

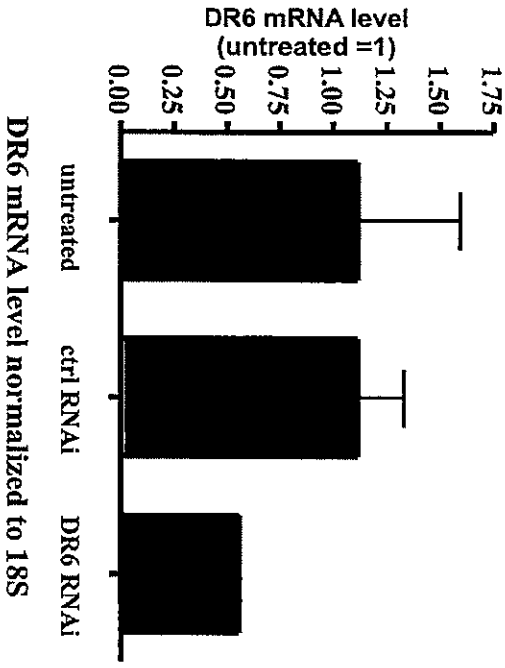


Fig. 22B

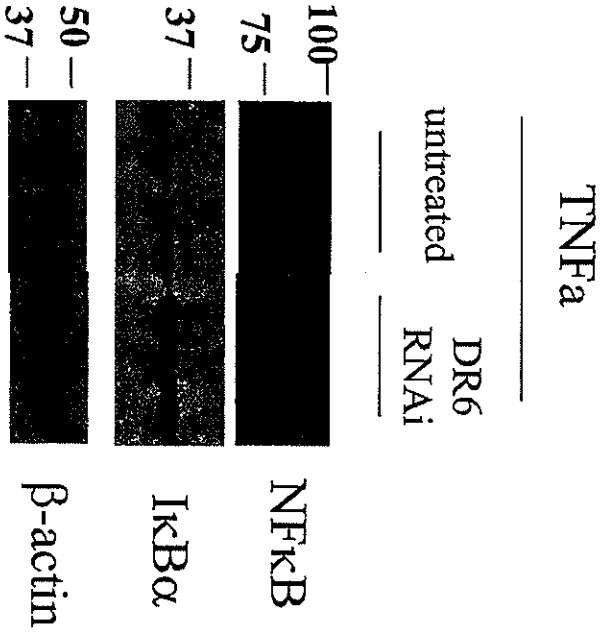


Fig. 22C

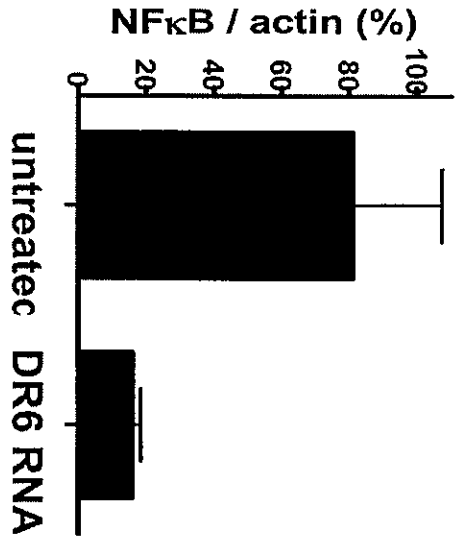
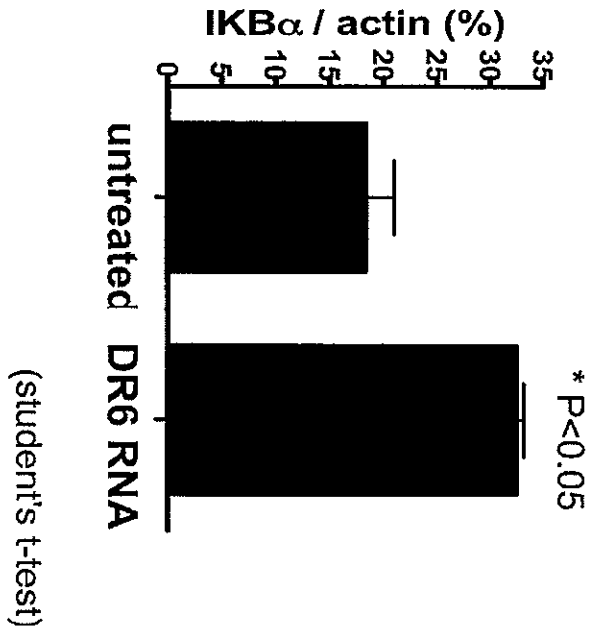


Fig. 22D



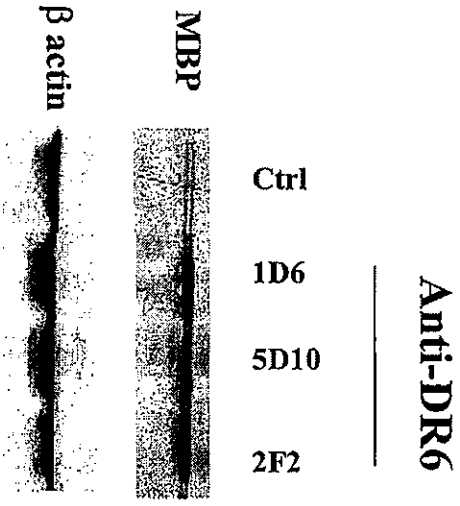


Fig. 23A

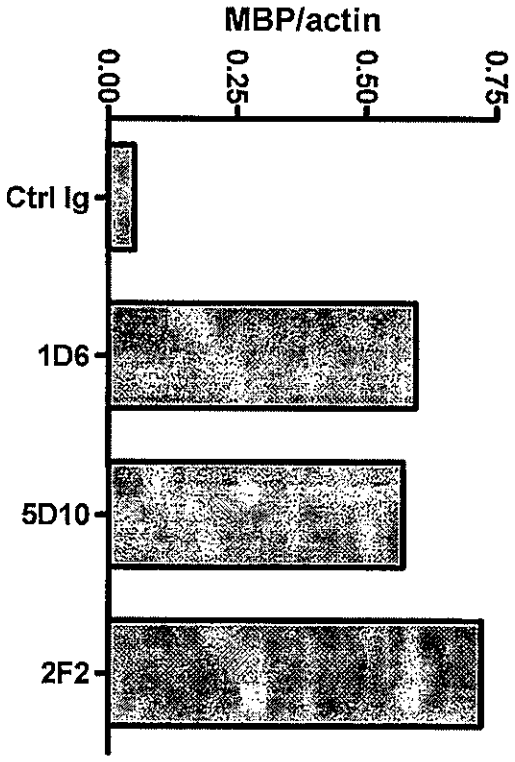
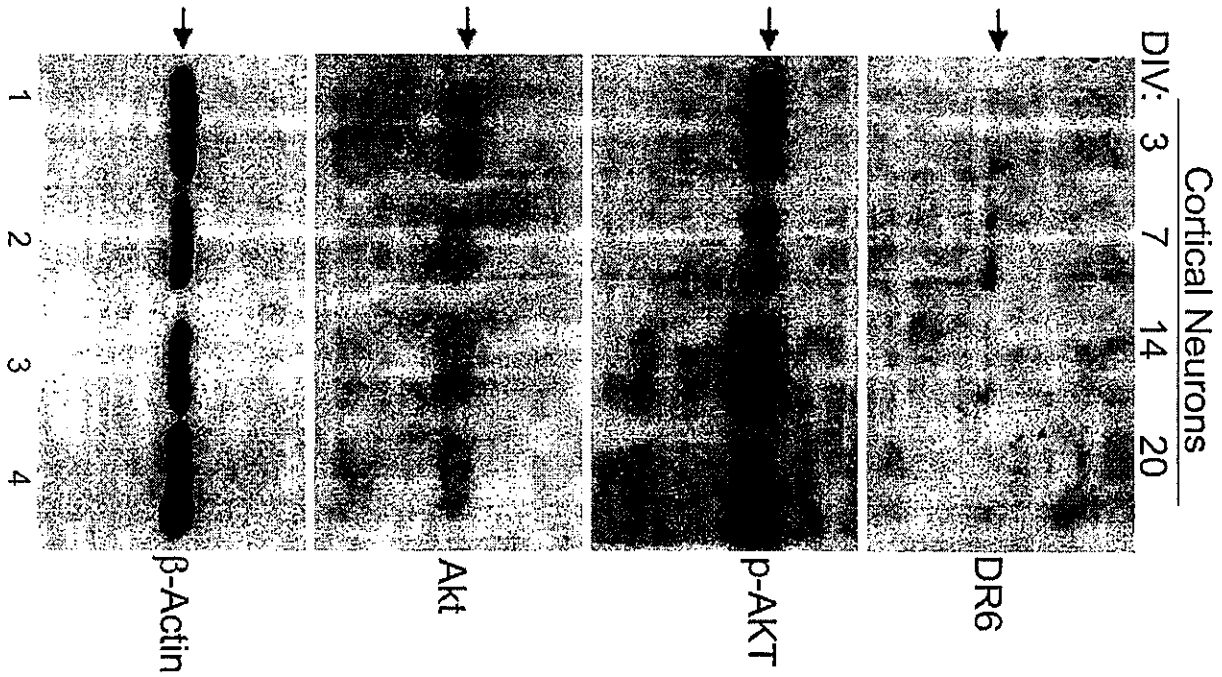


Fig. 23B

Fig. 24



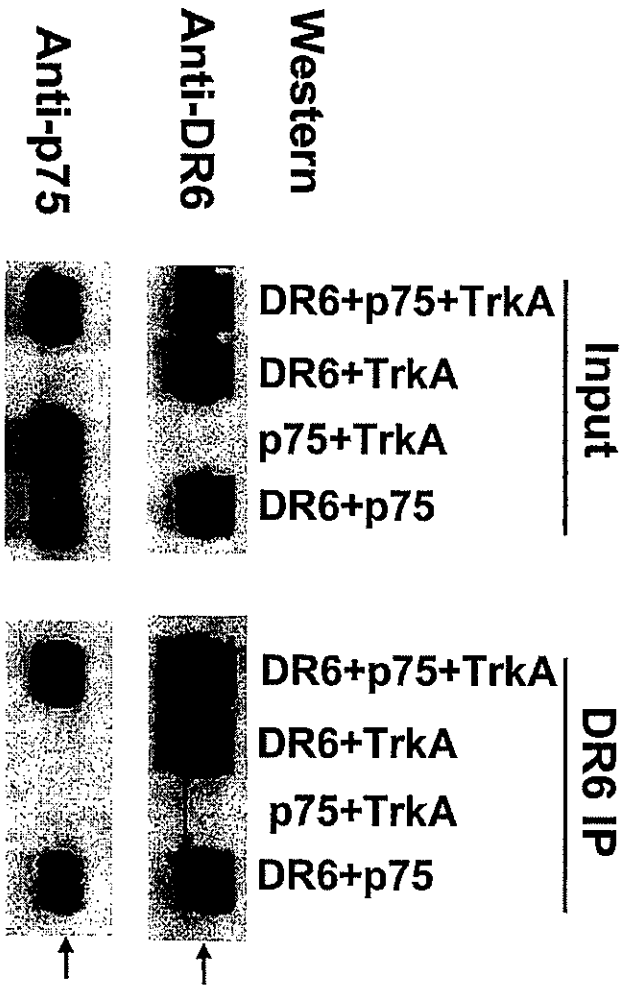


Fig. 25A

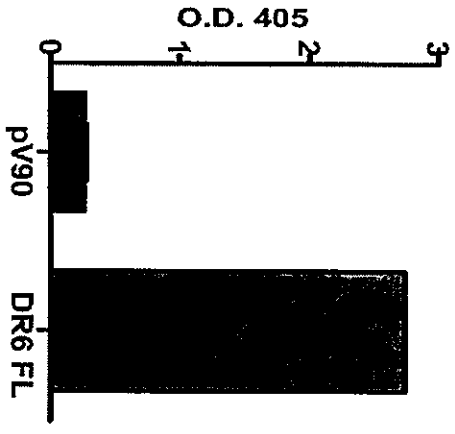


Fig. 25B

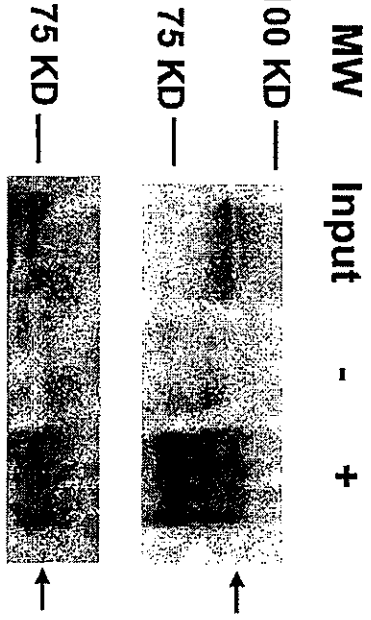


Fig. 25C

Fig. 26

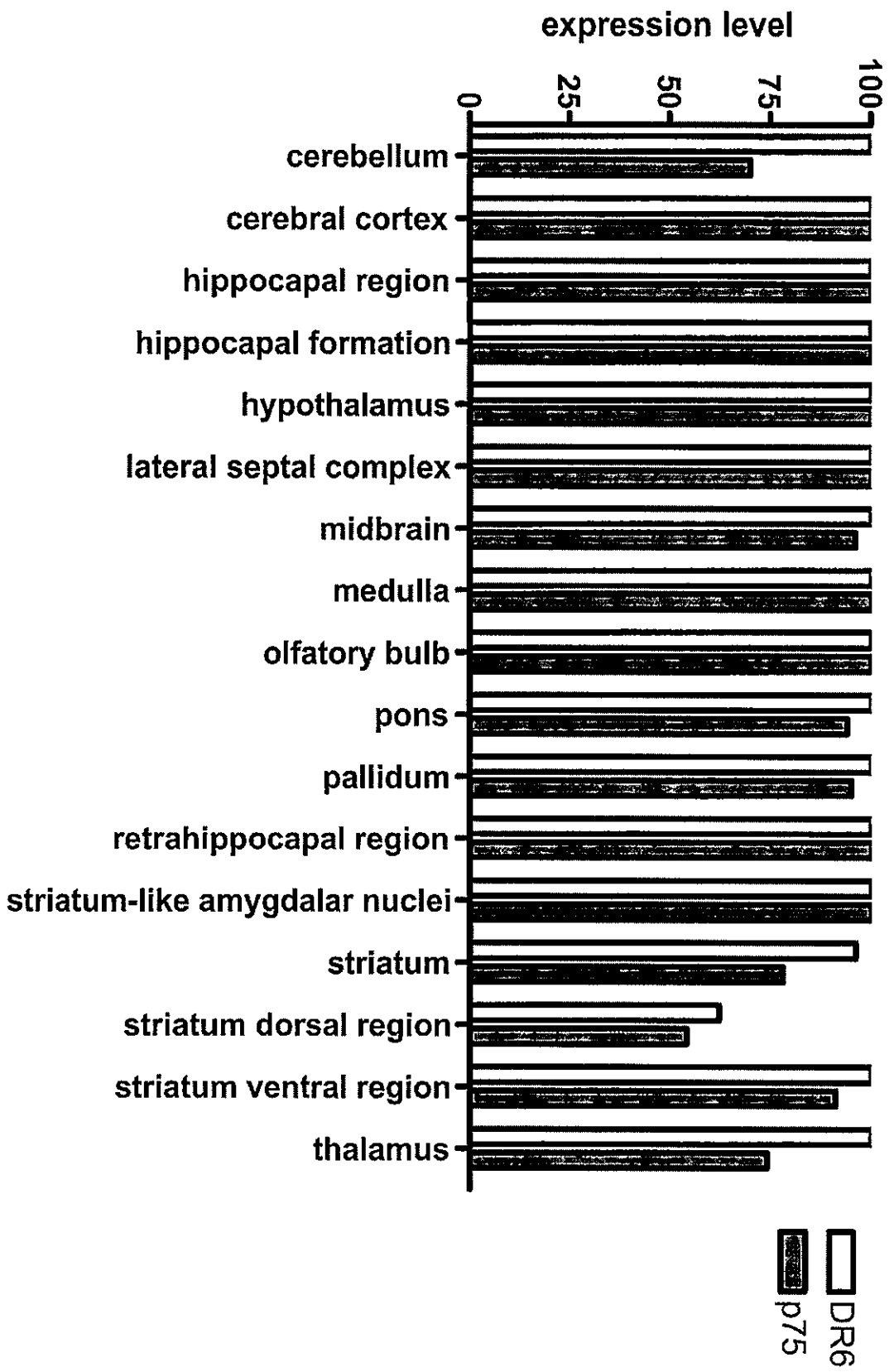

expression level
0
25
50
75
100
cerebellum
cerebral cortex
hippocapal region
hippocapal formation
hypothalamus
lateral septal complex
midbrain
medulla
olfatory bulb
pons
pallidum
retrahippocapal region
striatum-like amygdalar nuclei
striatum
striatum dorsal region
striatum ventral region
thalamus
p75
DR6

Fig. 27A

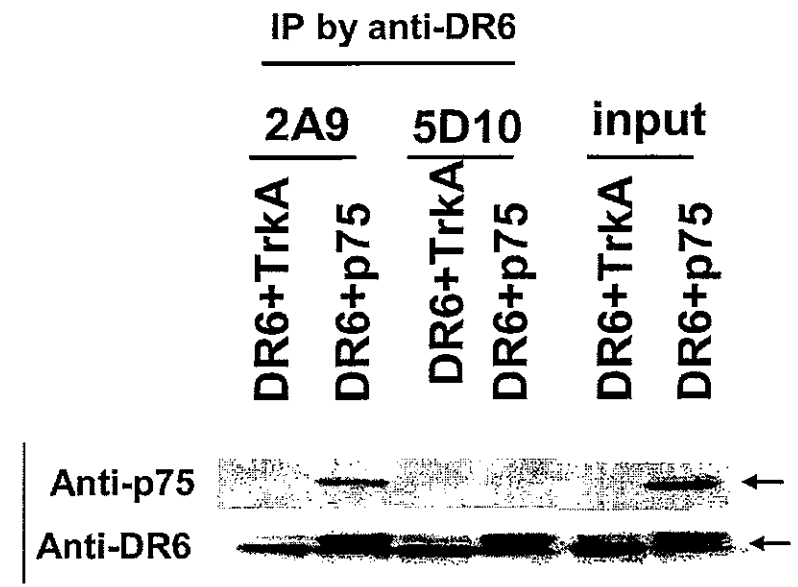


Fig. 27B

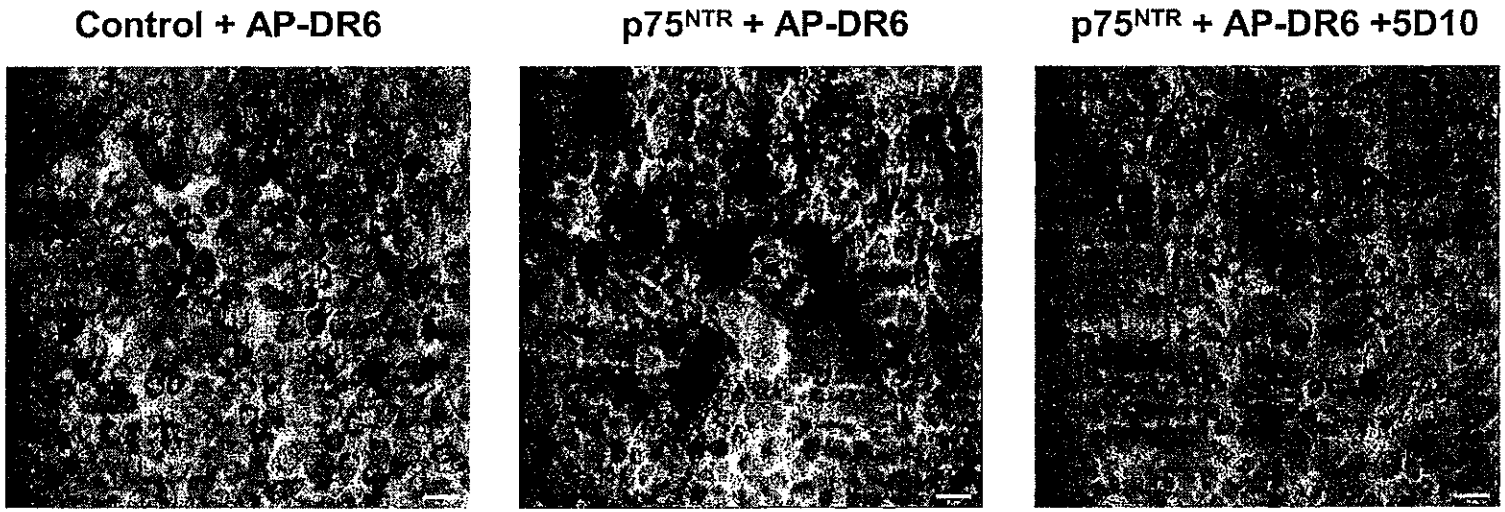


Fig. 28A

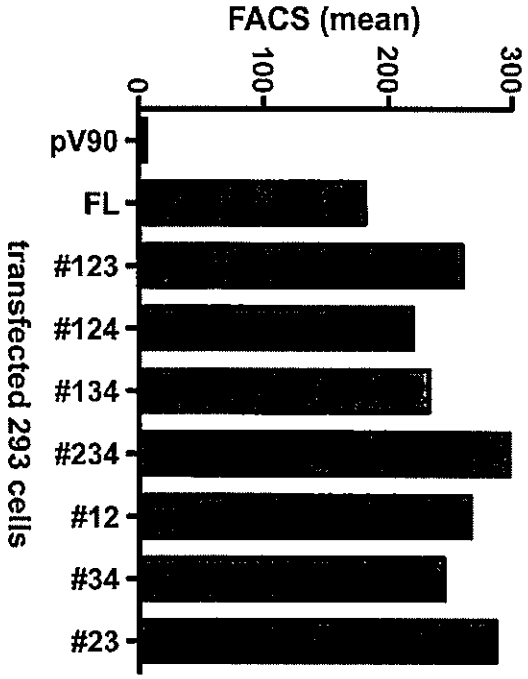


Fig. 28B

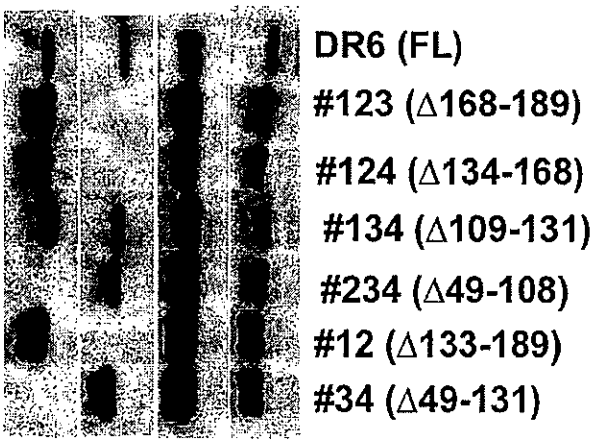


Fig. 28C

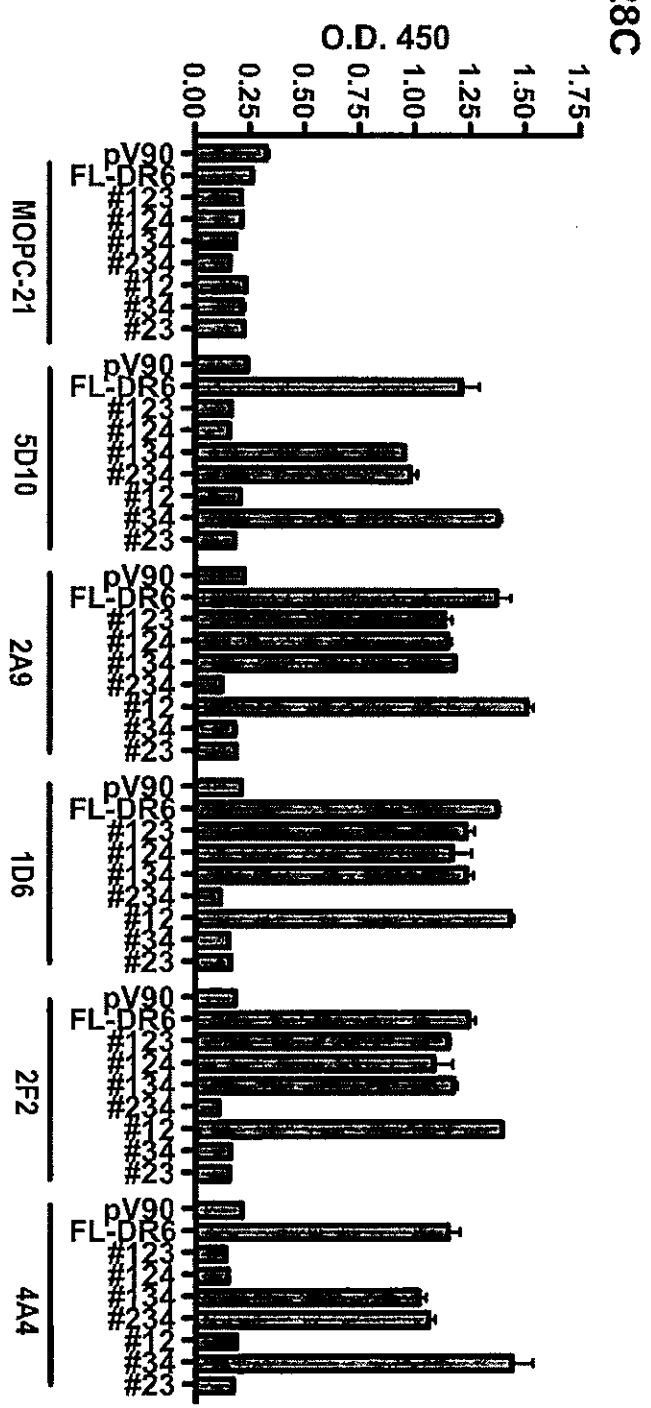


Fig. 29

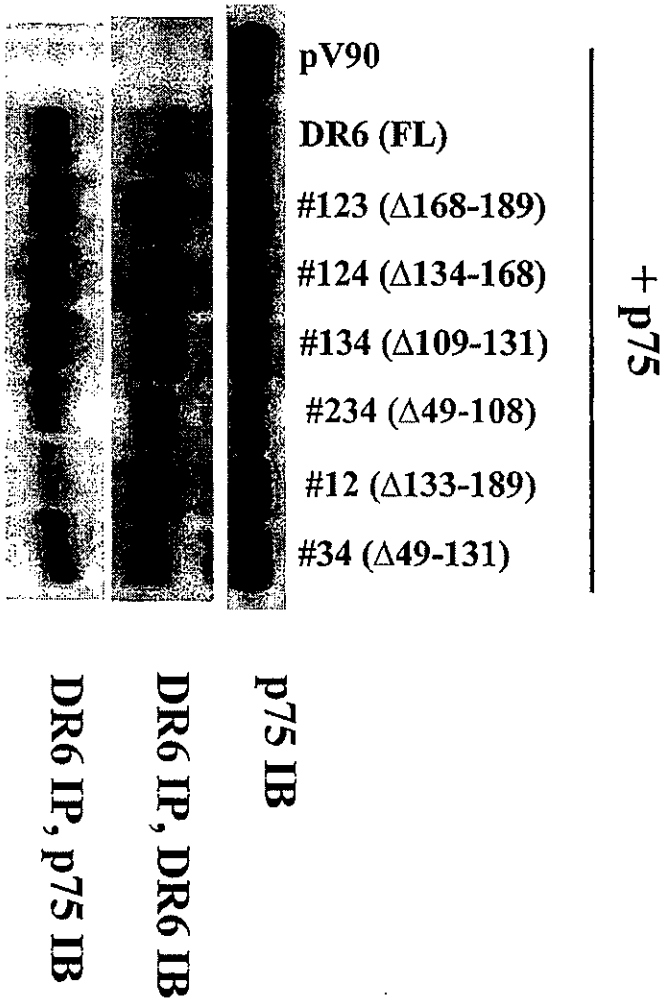

pV90
DR6 (FL)
#123 (Δ168-189)
#124 (Δ134-168)
#134 (Δ109-131)
#234 (Δ49-108)
#12 (Δ133-189)
#34 (Δ49-131)
+ p75
p75 IB
DR6 IP, DR6 IB
DR6 IP, p75 IB

Fig. 30

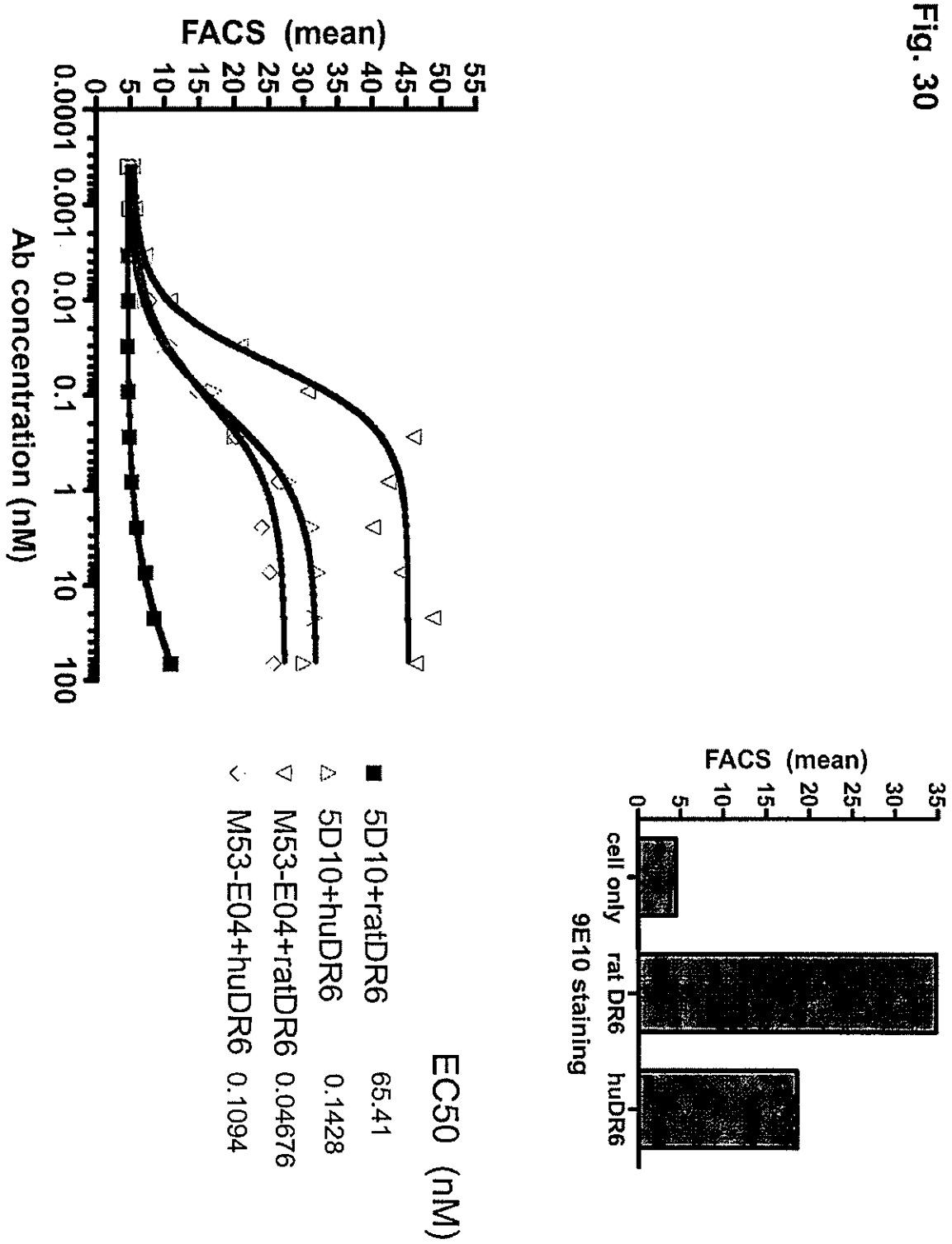
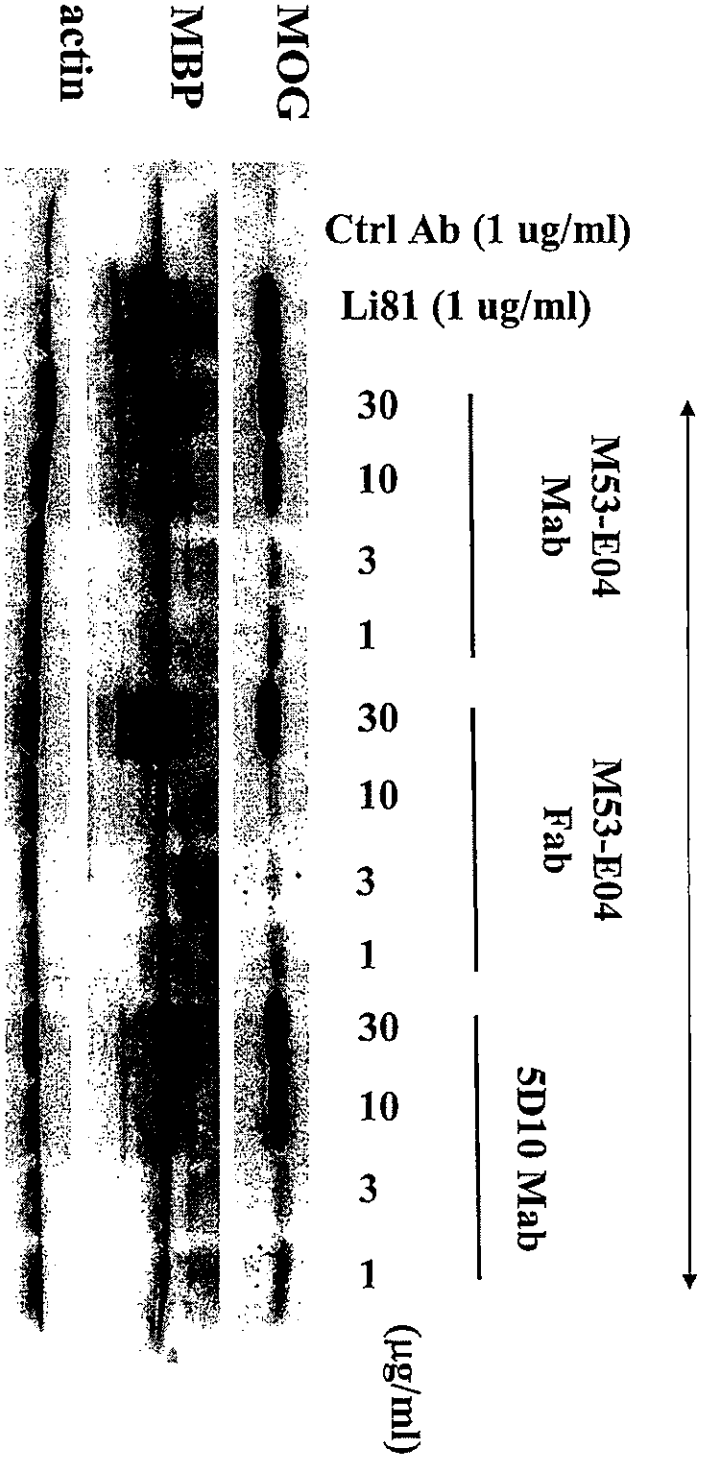

FACS (mean)
0
5
10
15
20
25
30
35
cell only
rat DR6
huDR6
9E10 staining
FACS (mean)
0
5
10
15
20
25
30
35
40
45
50
55
0.0001
0.001
0.01
0.1
1
10
100
Ab concentration (nM)
EC50 (nM)
5D10+ratDR6 65.41
5D10+huDR6 0.1428
M53-E04+ratDR6 0.04676
M53-E04+huDR6 0.1094

Fig. 31


MOG
MBP
actin
Ctrl Ab (1 ug/ml)
Li81 (1 ug/ml)
30
10
3
1
M53-E04 Mab
30
10
3
1
M53-E04 Fab
30
10
3
1
5D10 Mab
(μg/ml)
Anti-DR6 antibody