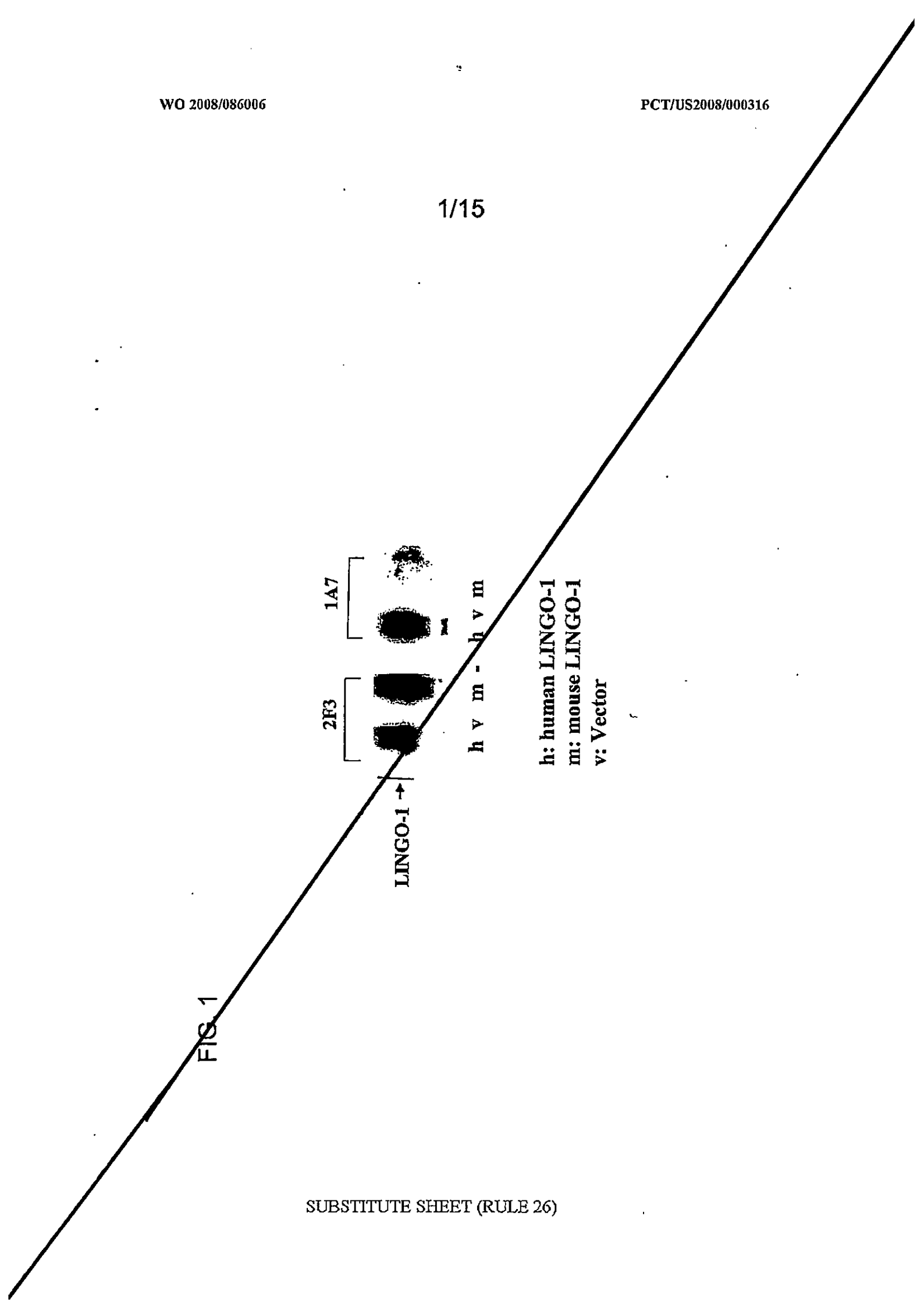


FIG. 1

FACS data of human LINGO-1 transfected 293 cells

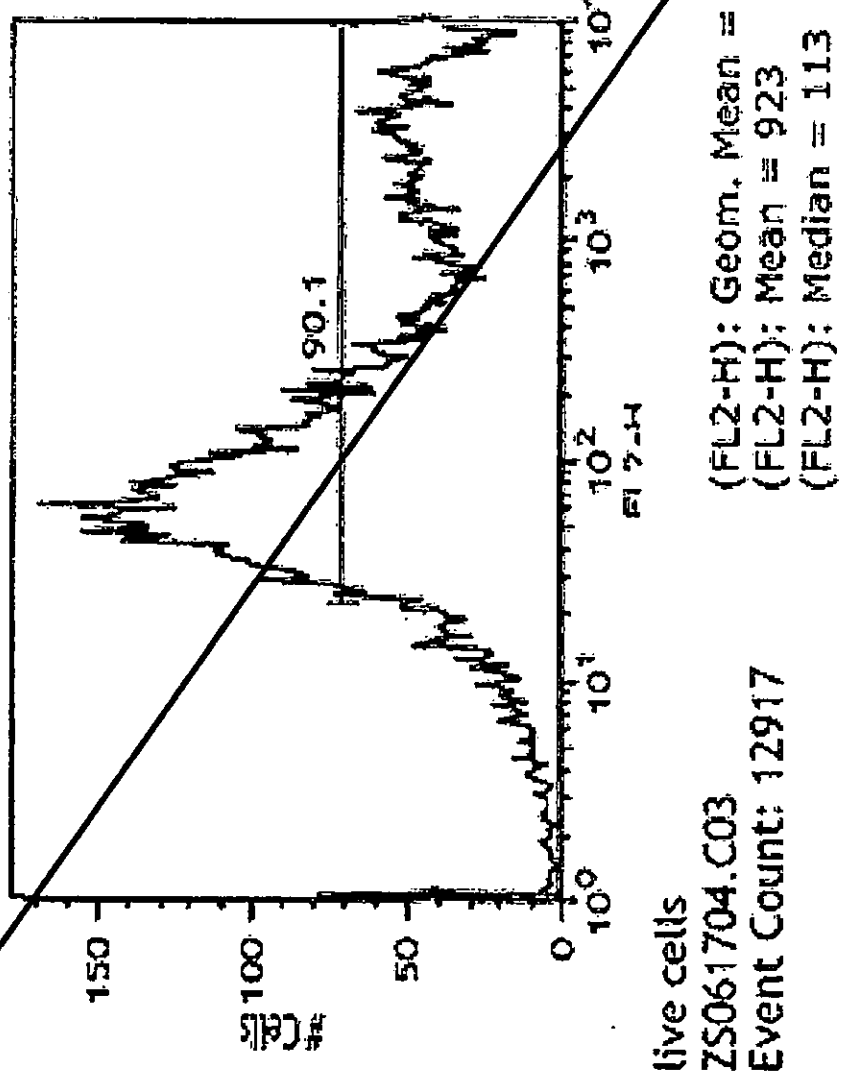


Fig 2A

FACS data of human LINGO-1 transfected 293 cells

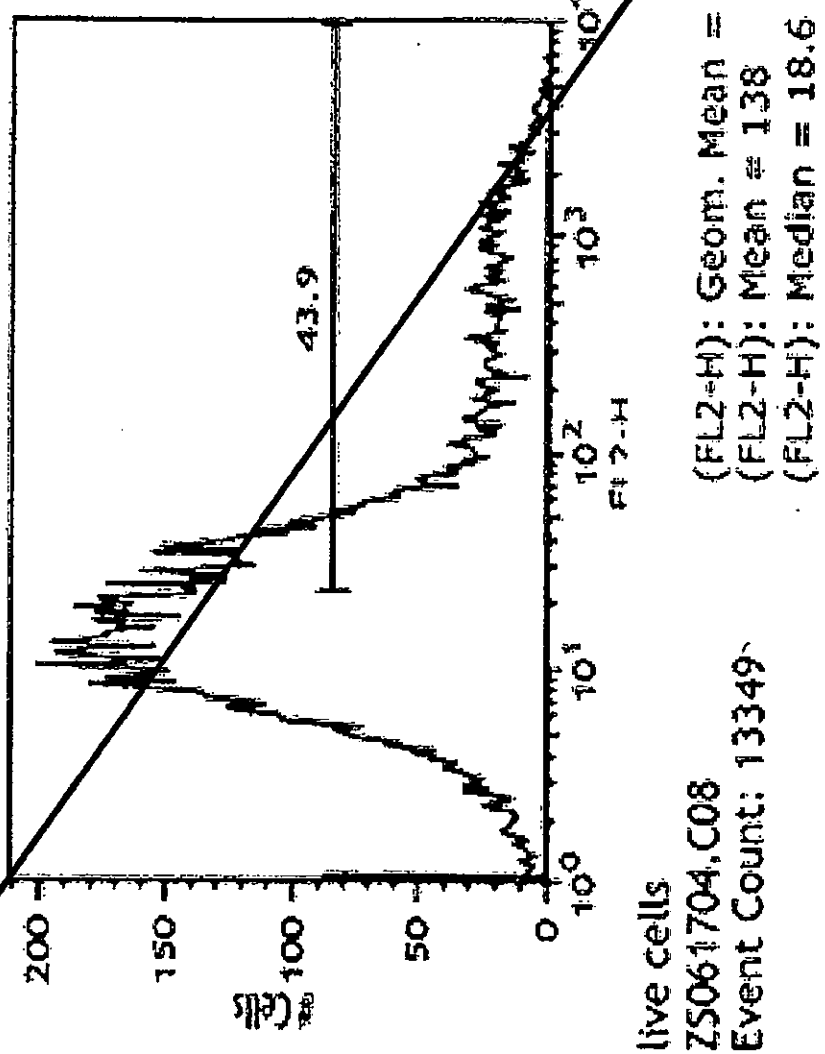


Fig 2B

FACS data of human LINGO-1 transfected 293 cells

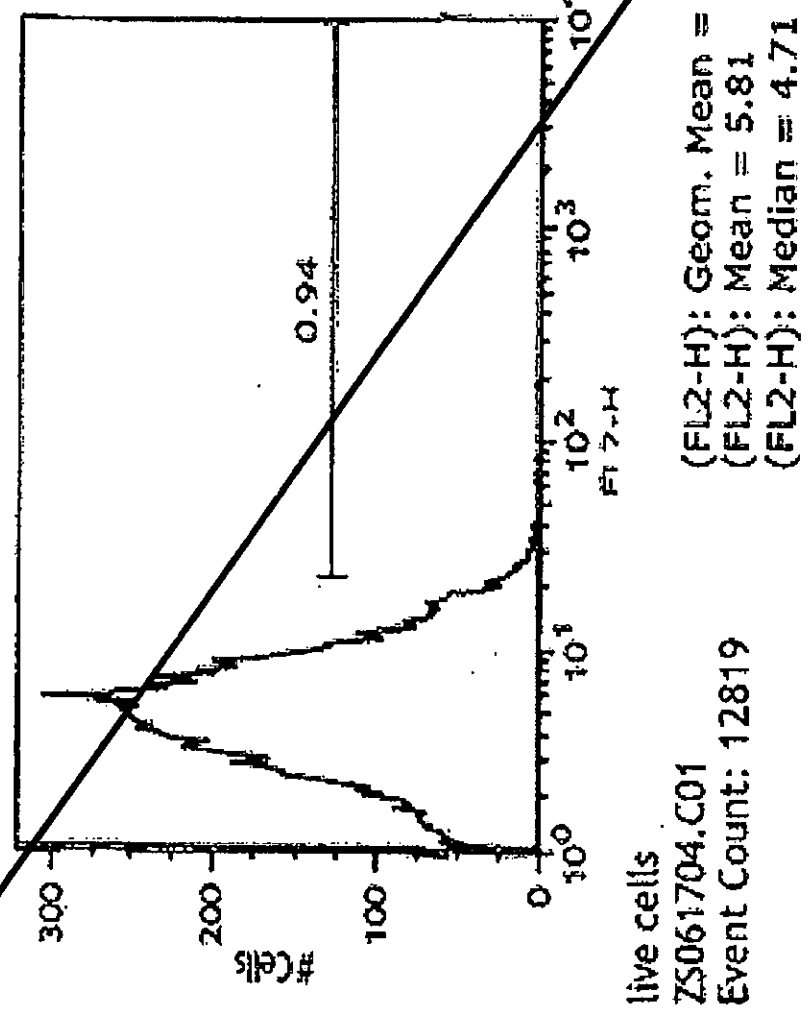


Fig 2C

FACS data of human LINGO-1 transfected 293 cells

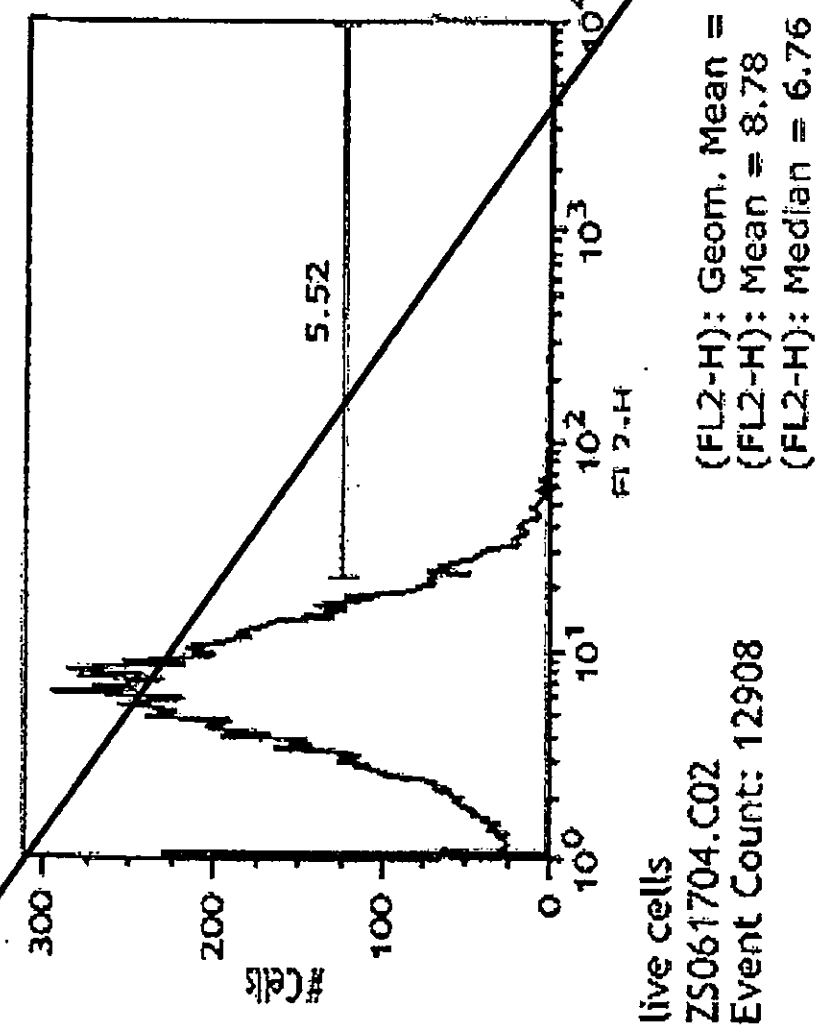


Fig 2D

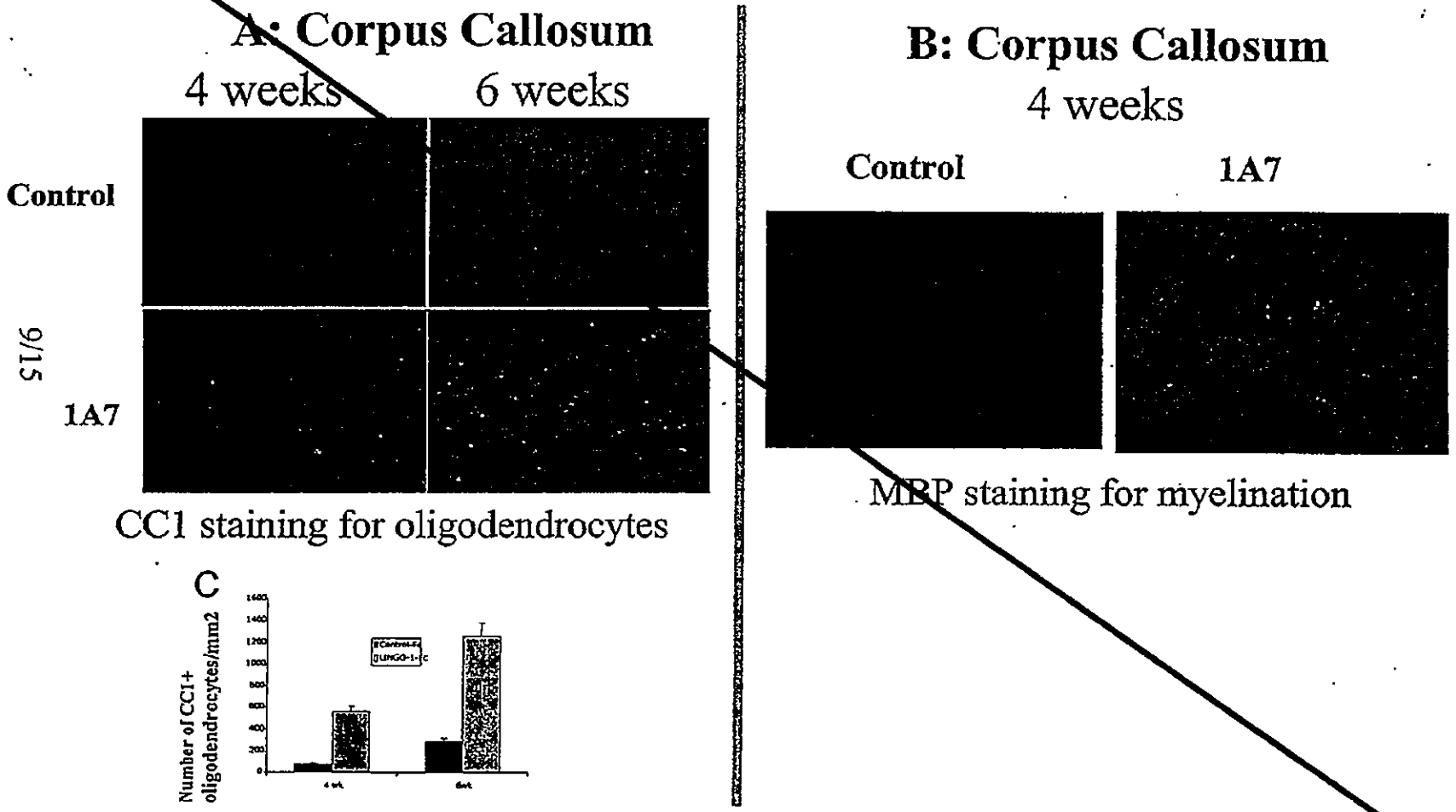
1A7 and 2F3 Promote CGN and DRG Neurite out Growth

Fig 3

FIG. 4: Anti-LINGO-1 mAbs Promote Myelination in Co-culture

FIG. 4: Anti-LINGO-1 Antibodies Promote Myelination in Co-culture

FIG. 5: 1A7 Promotes Oligodendrocyte Survival and Remyelination in Cuprizone Model



1A7 Promotes RGC Neurons Survival

Fig 6

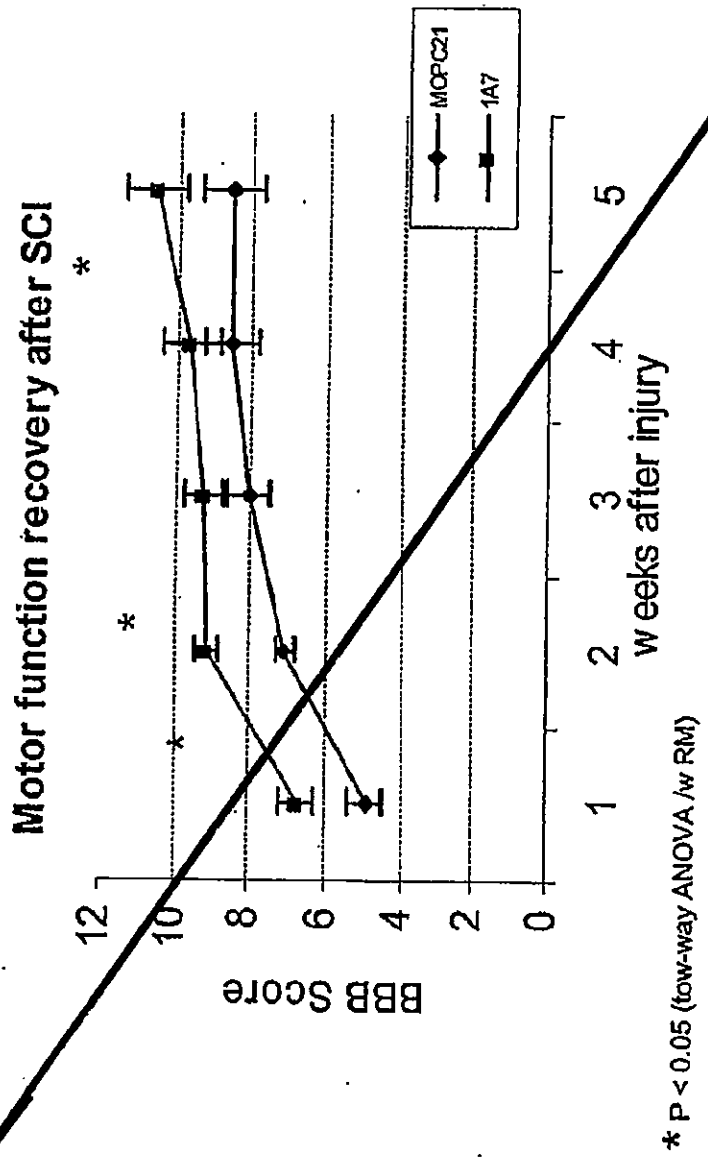

Motor function recovery after SCI
BBB Score
12
10
8
6
4
2
0
1
2
3
4
5
W eeks after injury
MOPC21
1A7
*
* P < 0.05 (tow-way ANOVA /w RM)

Fig 7

MBP
B-actin
Li05
Li06
LINGO-1Ig 3
LINGO-1Ig 10
LINGO-1Ig 30
Control
Control
Li06
LINGO-1Ig 10
Control

Fig 8

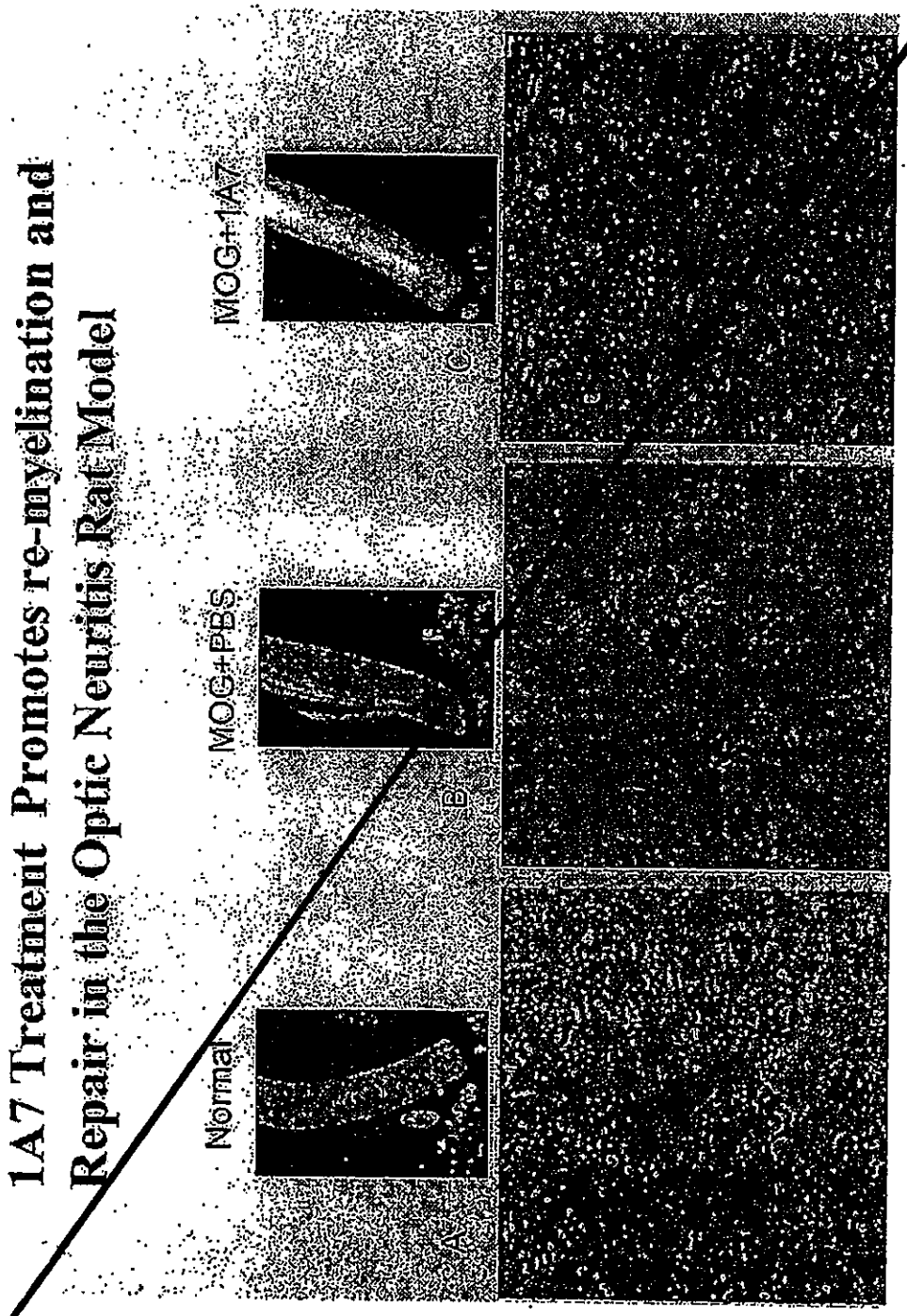

1A7 Treatment Promotes re-myelination and Repair in the Optic Neuritis Rat Model
Normal
MOG+PBS
MOG+1A7
A
B
C
0602-86.

FIG. 9

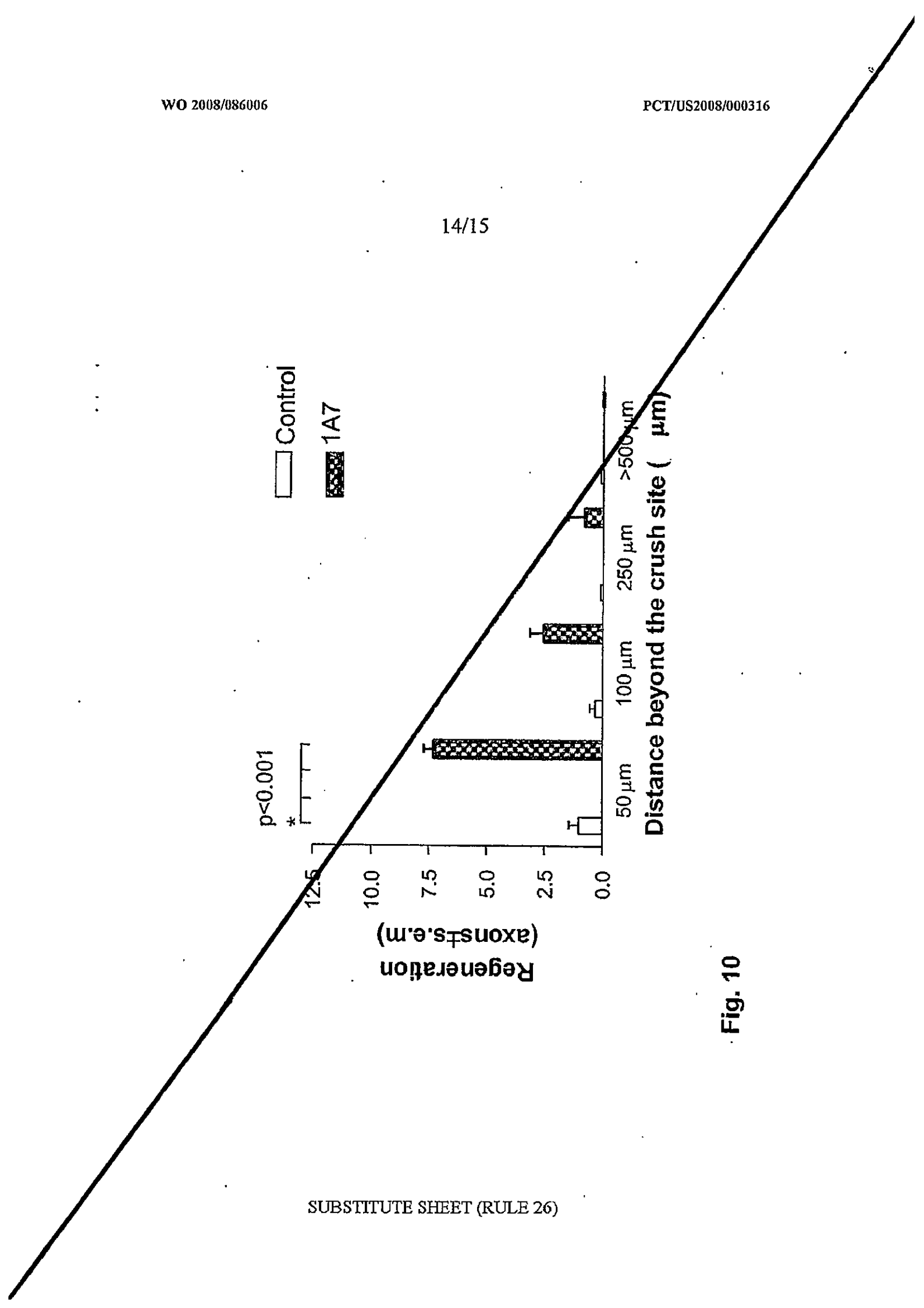

Control
1A7
p<0.001
*
Regeneration
(axons±s.e.m)
12.5
10.0
7.5
5.0
2.5
0.0
50 µm
100 µm
250 µm
>500 µm
Distance beyond the crush site (µm)

Fig. 10

SUBSTITUTE SHEET (RULE 26)

Stable LINGO-1 CHO Direct Binding FACS

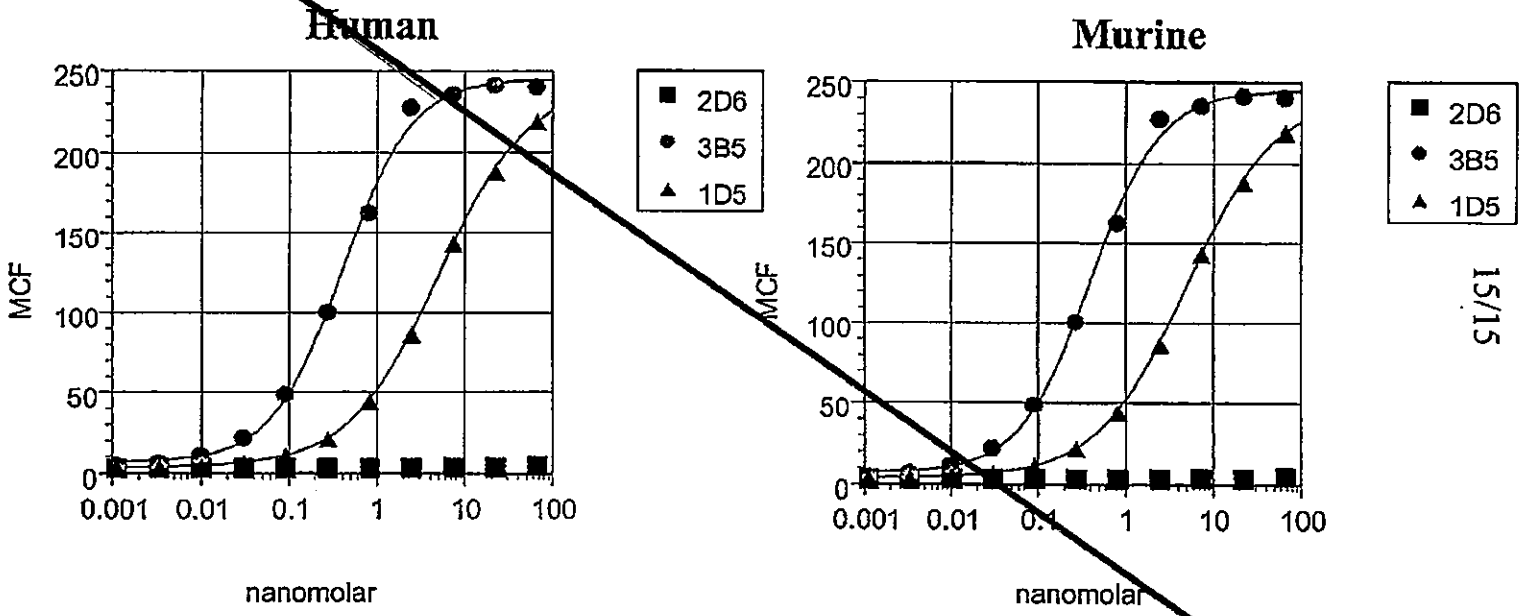
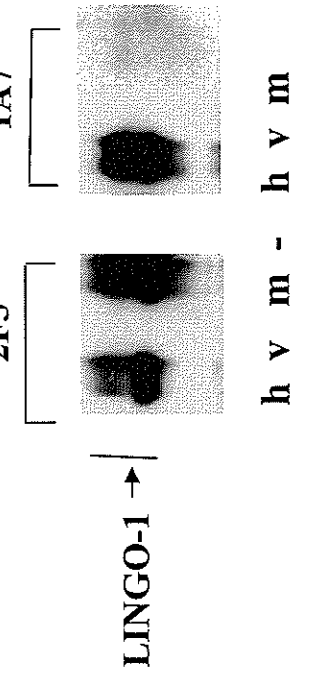


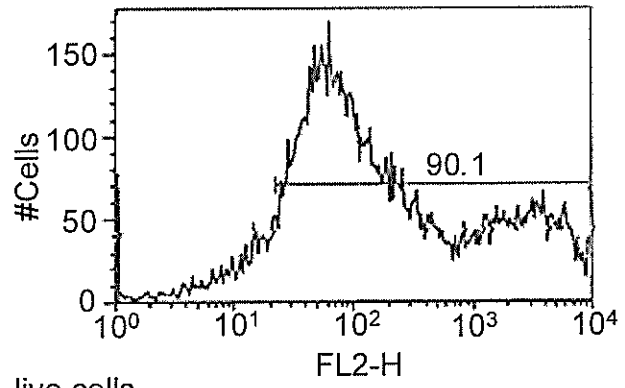
Fig. 11

FIG. 1



FACS data of human LINGO-1 transfected 293 cells

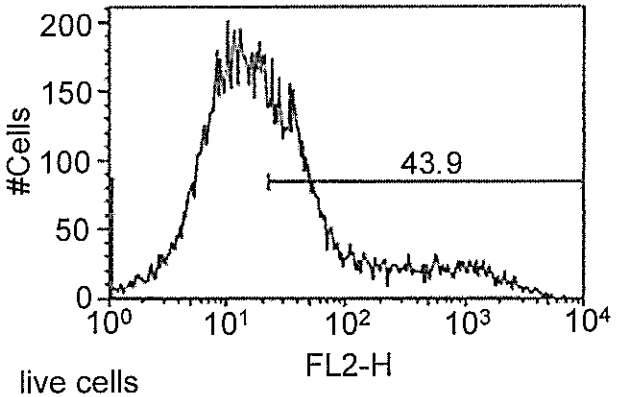
1A7



live cells
ZS061704.C03
Event Count:12917

(FL2-H): Geom. Mean = 172
(FL2-H): Mean = 923
(FL2-H): Median = 113

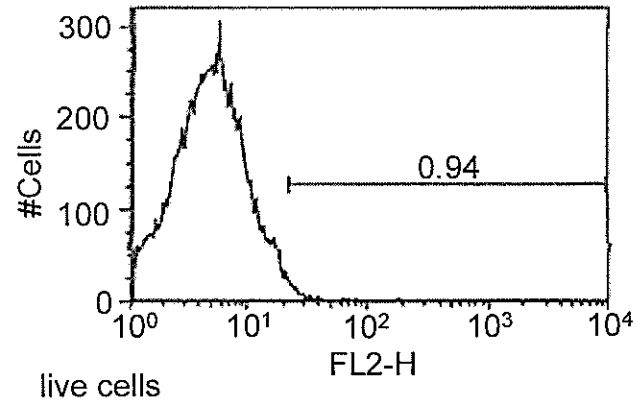
2F3



live cells
ZS061704.C08
Event Count:13349

(FL2-H): Geom. Mean = 24.9
(FL2-H): Mean = 138
(FL2-H): Median = 18.6

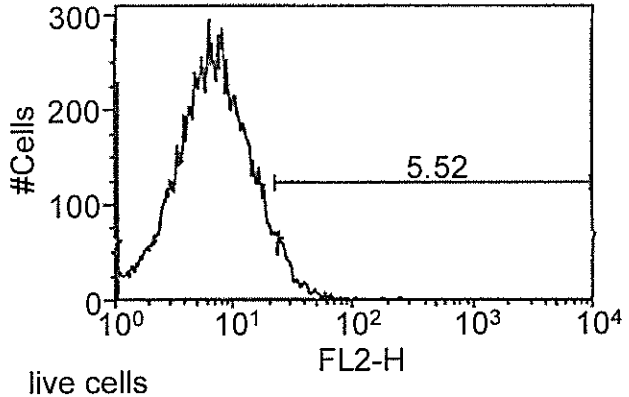
Cell only



live cells
ZS061704.C01
Event Count:12819

(FL2-H): Geom. Mean = 4.47
(FL2-H): Mean = 5.81
(FL2-H): Median = 4.71

2nd Ab only

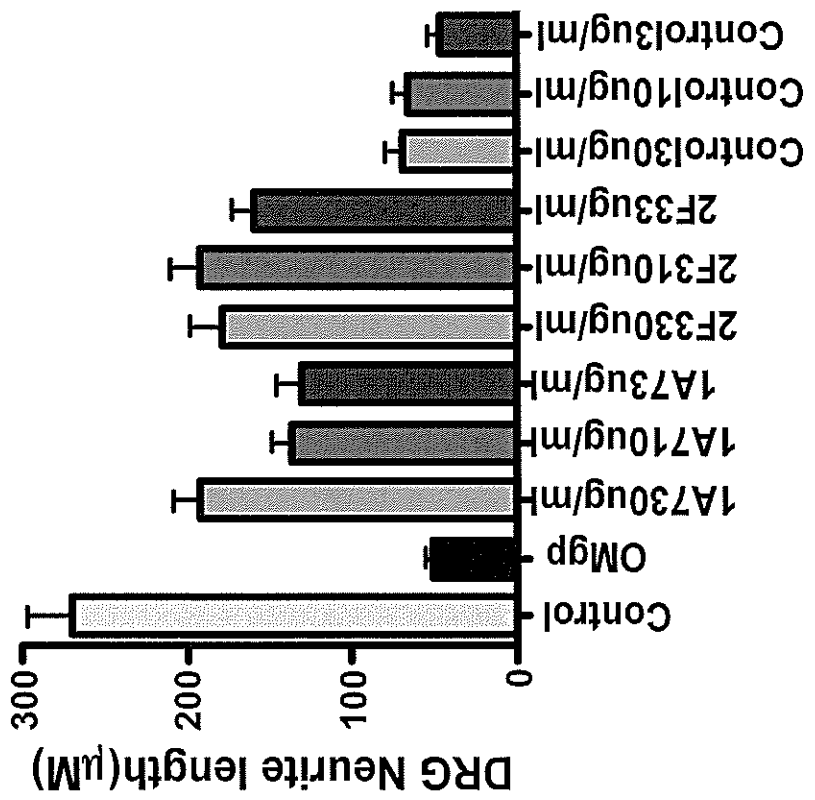


live cells
ZS061704.C02
Event Count: 12908

(FL2-H): Geom. Mean = 6.6
(FL2-H): Mean = 8.78
(FL2-H): Median = 6.76

Fig 2

1A7 and 2F3 Promote CGN and DRG Neurite out Growth



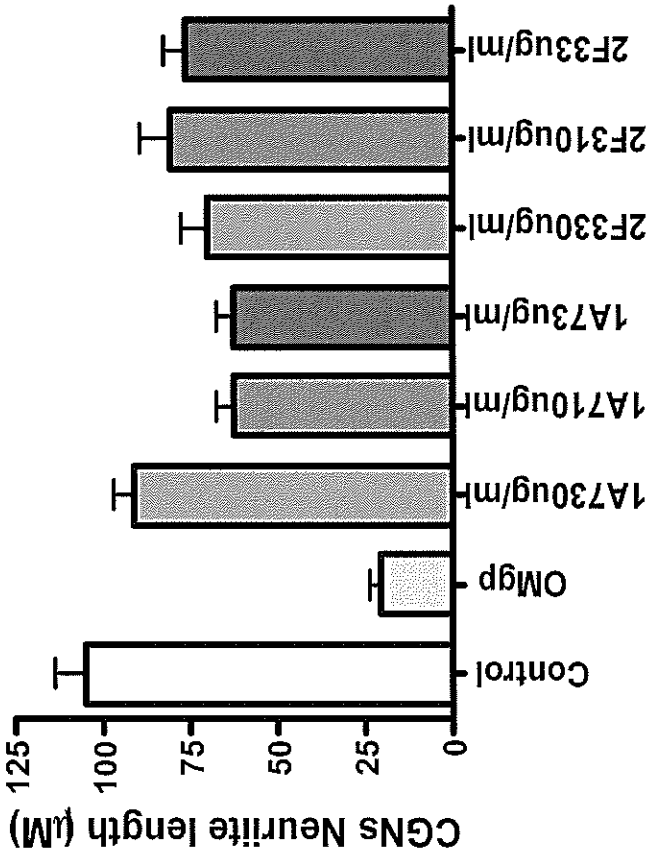
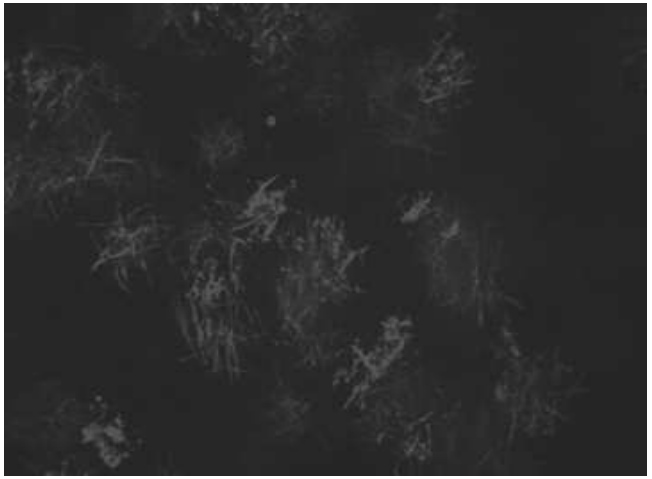


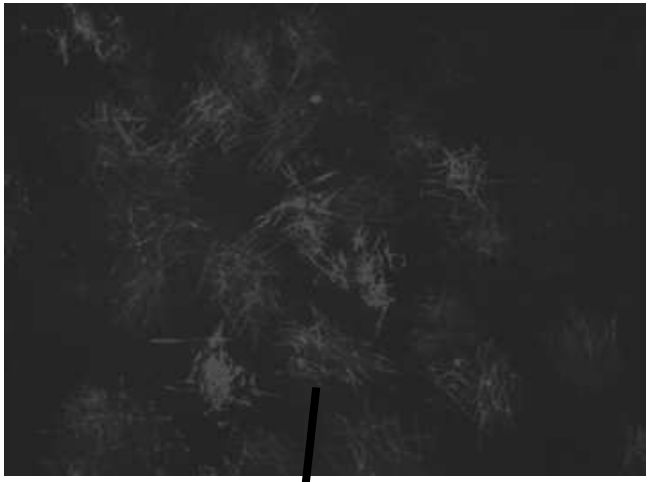
Fig 3

FIG. 4: Anti-LINGO-1 mAbs Promote Myelination in Co-culture

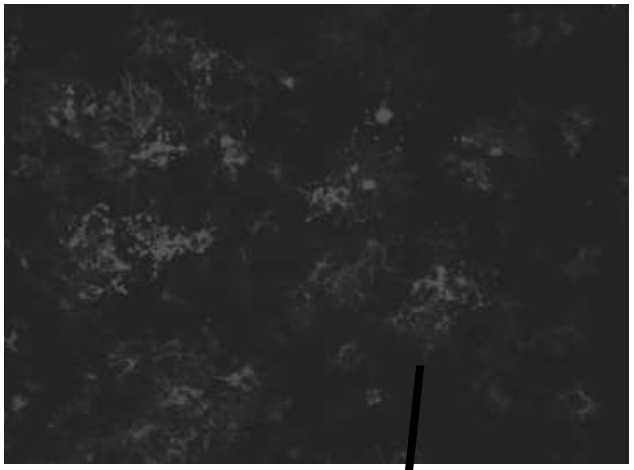
4A **1A7**



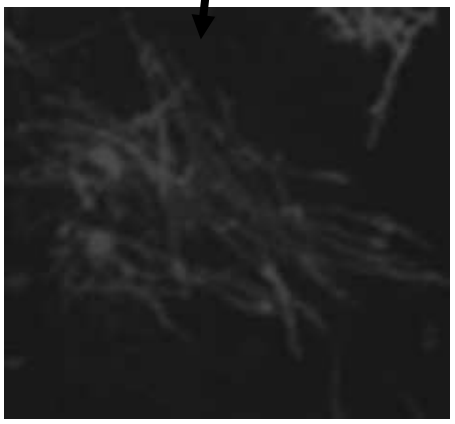
4B **2F3**



4C **Control-Ab**



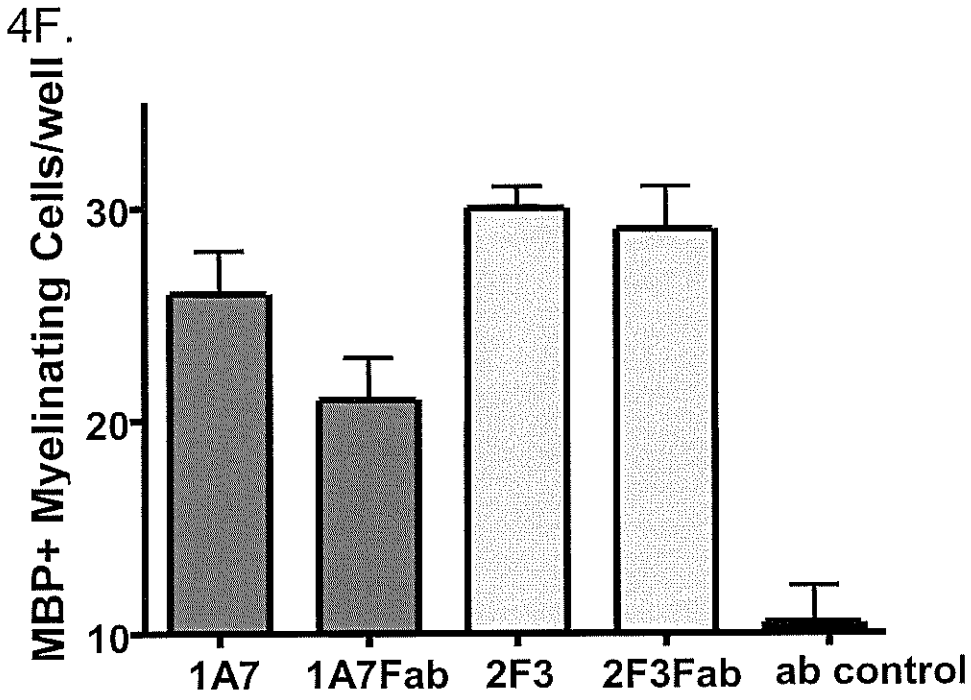
4D



4E



FIG. 4: Anti-LINGO-1 Antibodies Promote Myelination in Co-culture



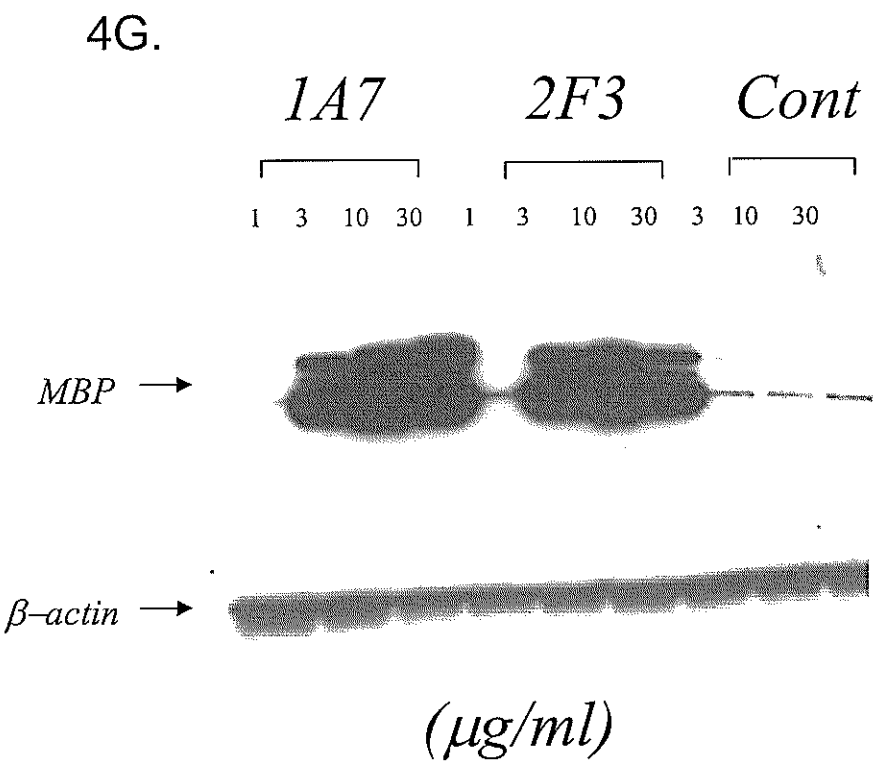


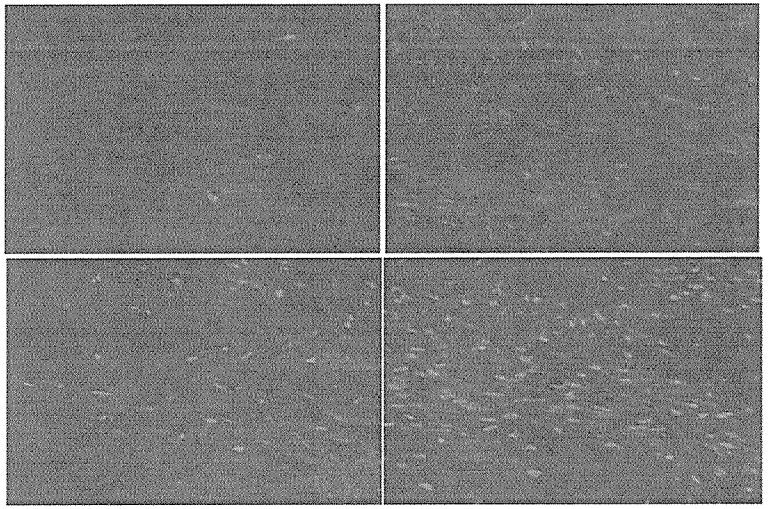
FIG. 5: 1A7 Promotes Oligodendrocyte Survival and Remyelination in Cuprizone Model

A: Corpus Callosum

4 weeks 6 weeks

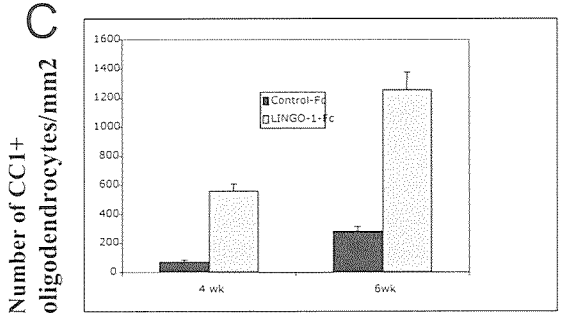
Control

1A7



CC1 staining for oligodendrocytes

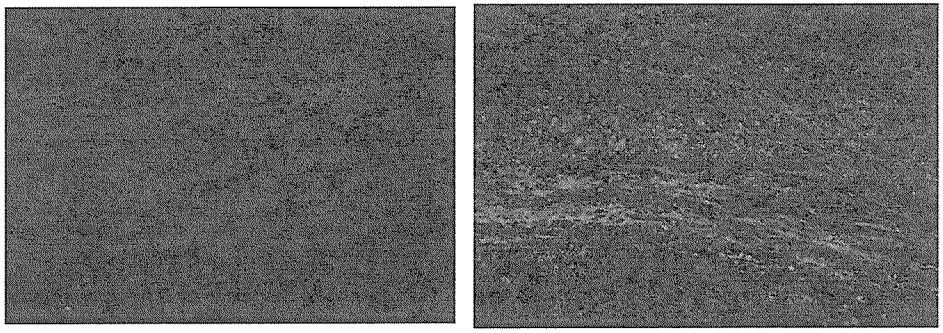
C



B: Corpus Callosum

4 weeks

Control 1A7



MBP staining for myelination

1A7 Promotes RGC Neurons Survival

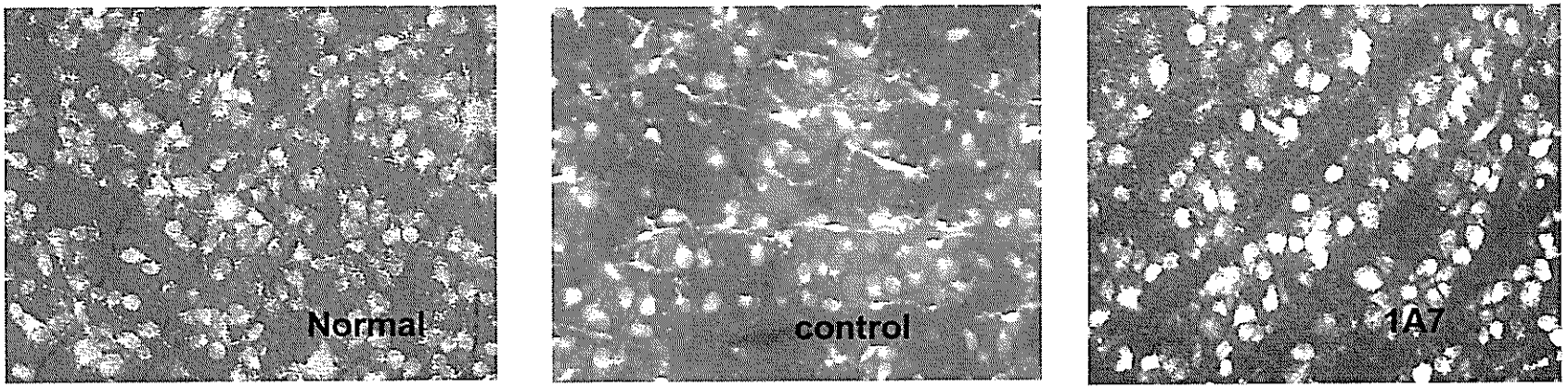


Fig 6

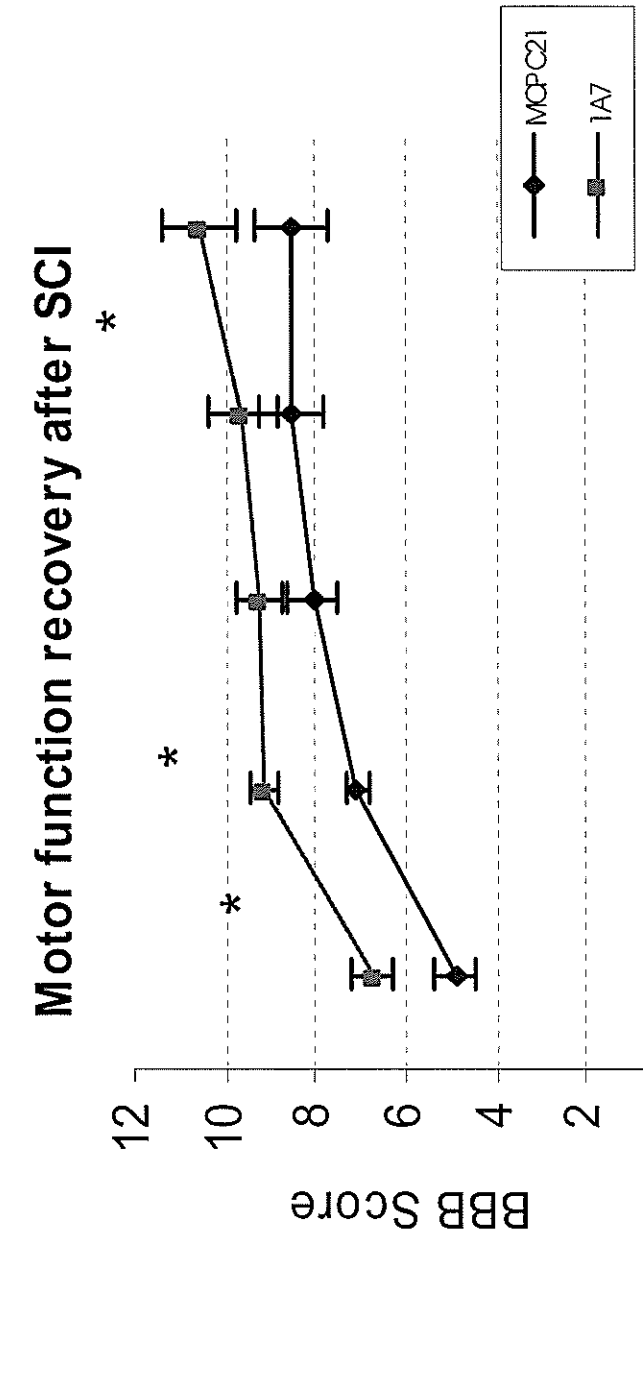

Motor function recovery after SCI
BBB Score
12
10
8
6
4
2
0
1
2
3
4
5
weeks after injury
MCPC21
1A7
*
*
*
* P < 0.05 (tow-way ANOVA /w RM)

Fig 7

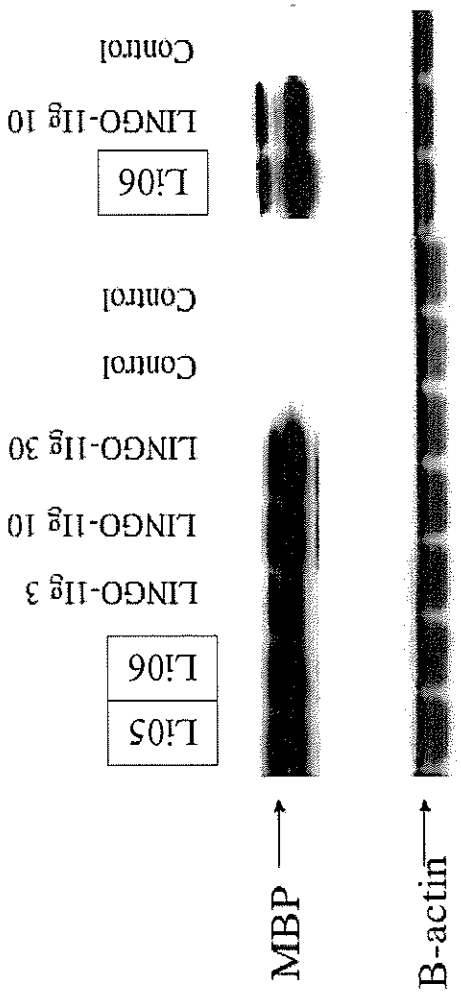

MBP
B-actin
Li05
Li06
LINGO-1Ig 3
LINGO-1Ig 10
LINGO-1Ig 30
Control
Control
Li06
LINGO-1Ig 10
Control

Fig 8

1A7 Treatment Promotes re-myelination and Repair in the Optic Neuritis Rat Model

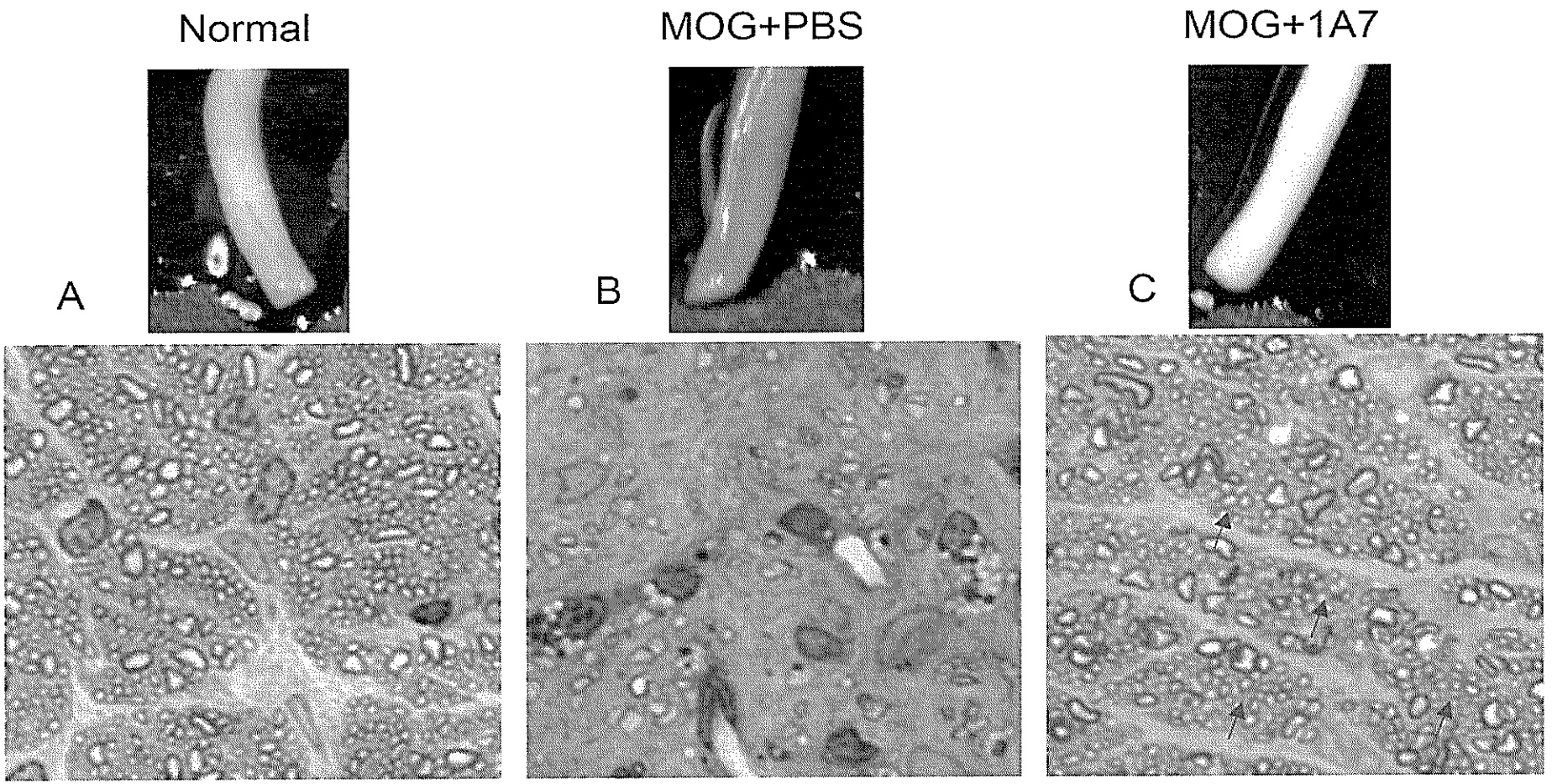


FIG. 9

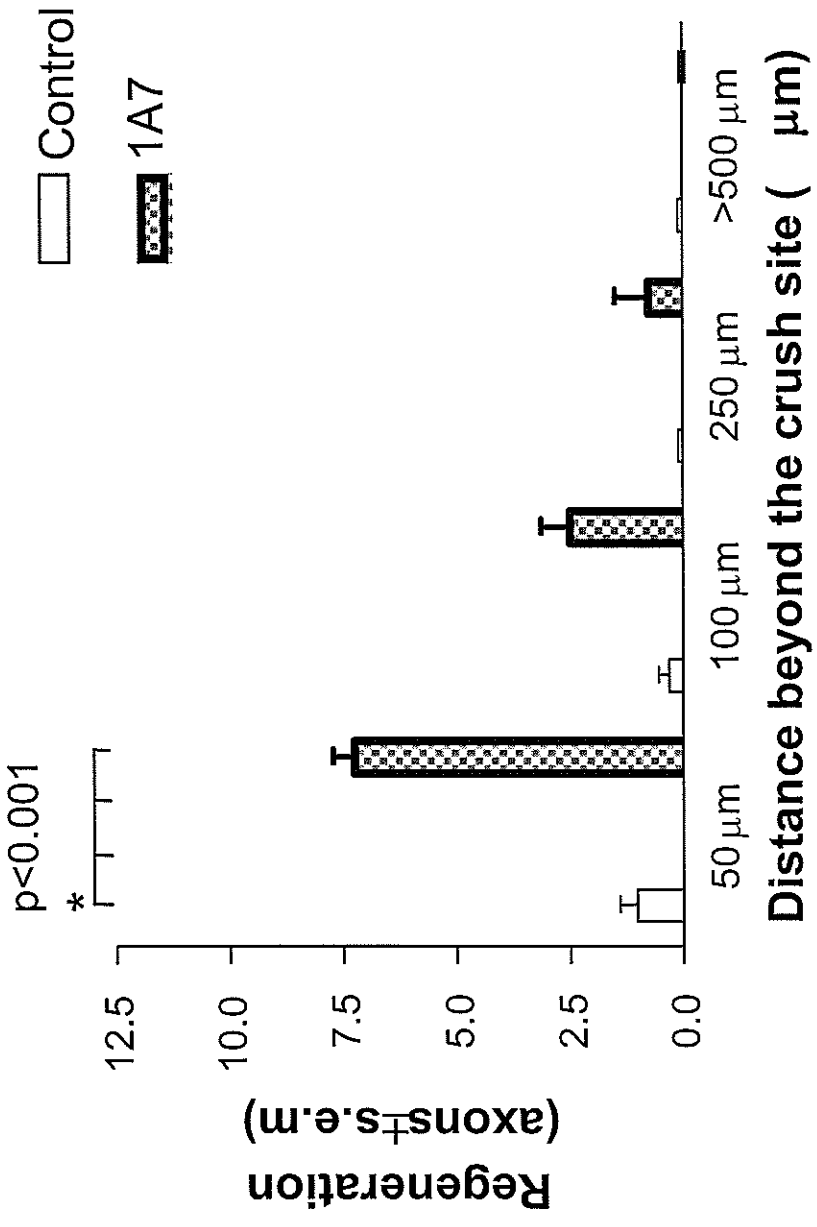

Control
1A7
p<0.001
*
12.5
10.0
7.5
5.0
2.5
0.0
Regeneration
(axons±s.e.m)
50 µm
100 µm
250 µm
>500 µm
Distance beyond the crush site (µm)

Fig. 10

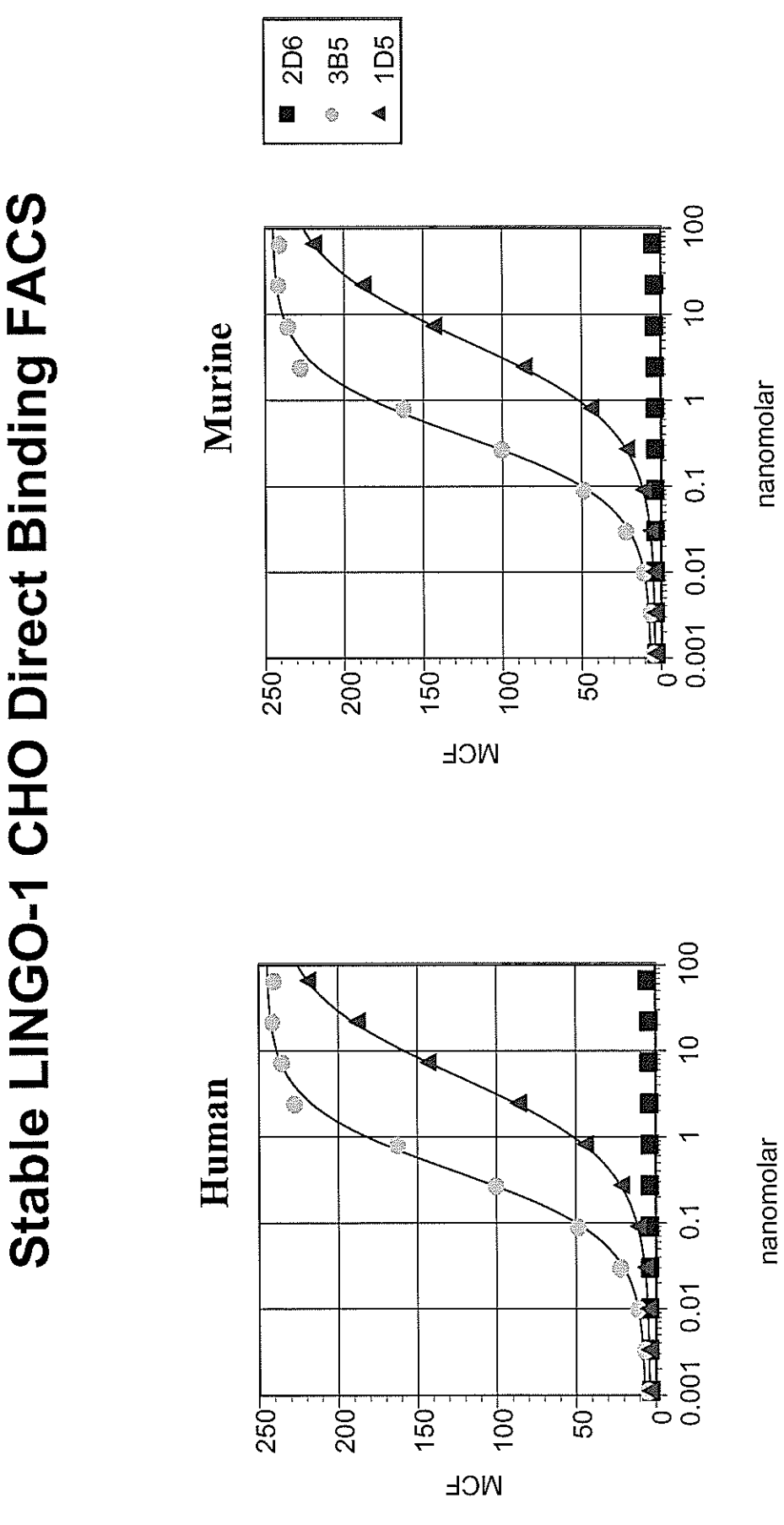

Stable LINGO-1 CHO Direct Binding FACS
Human
Murine
MCF
nanomolar
2D6
3B5
1D5
0
50
100
150
200
250
0.001
0.01
0.1
1
10
100

Fig. 11