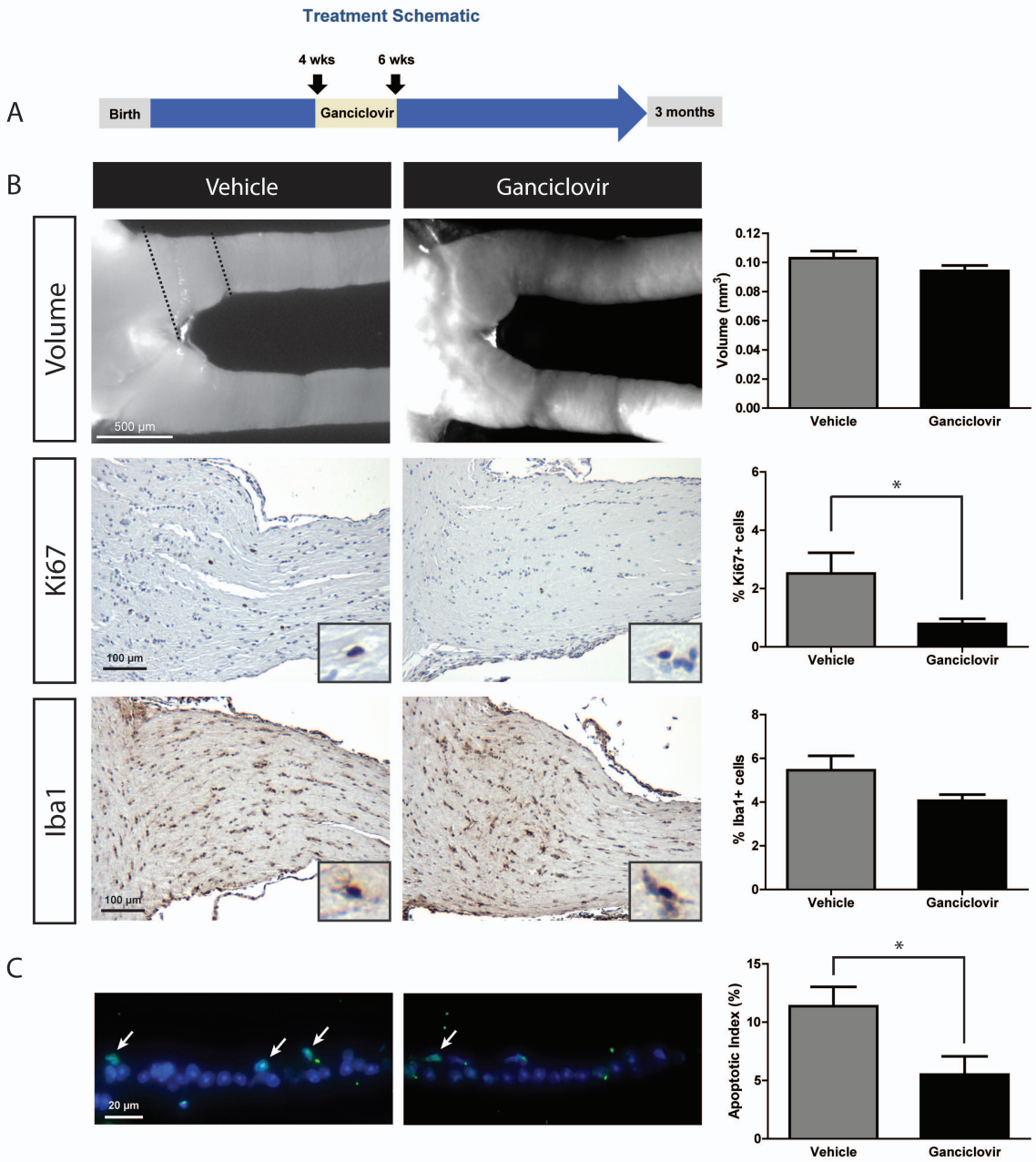
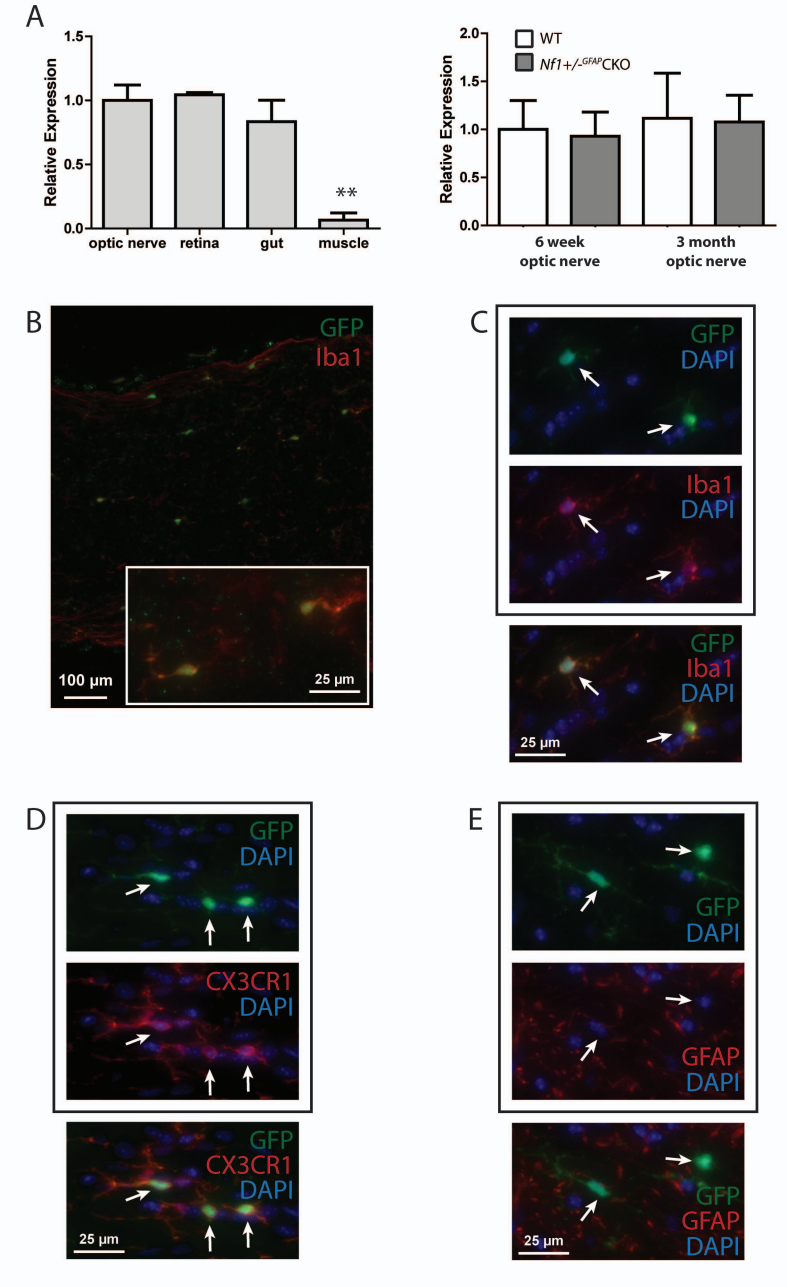
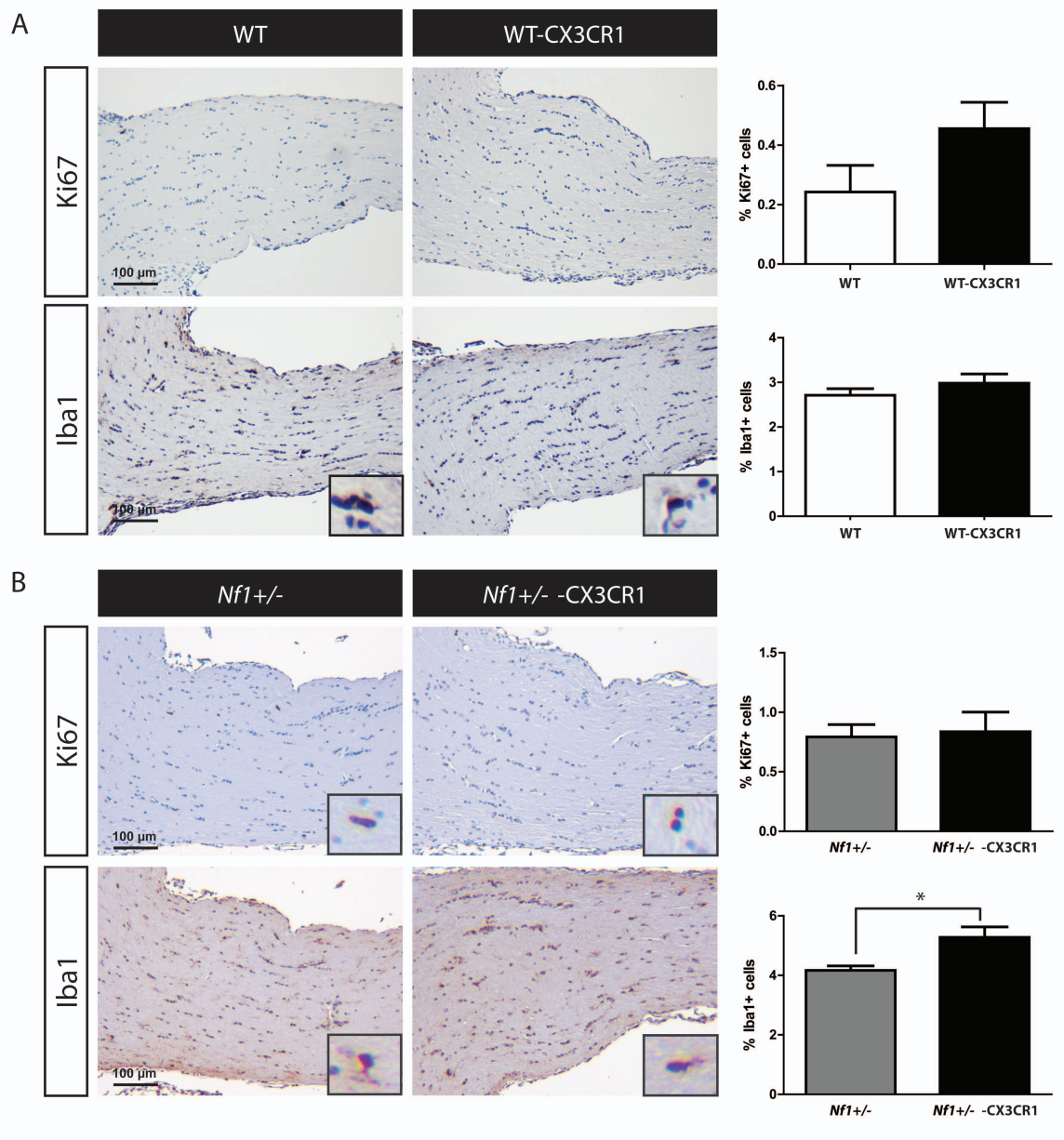
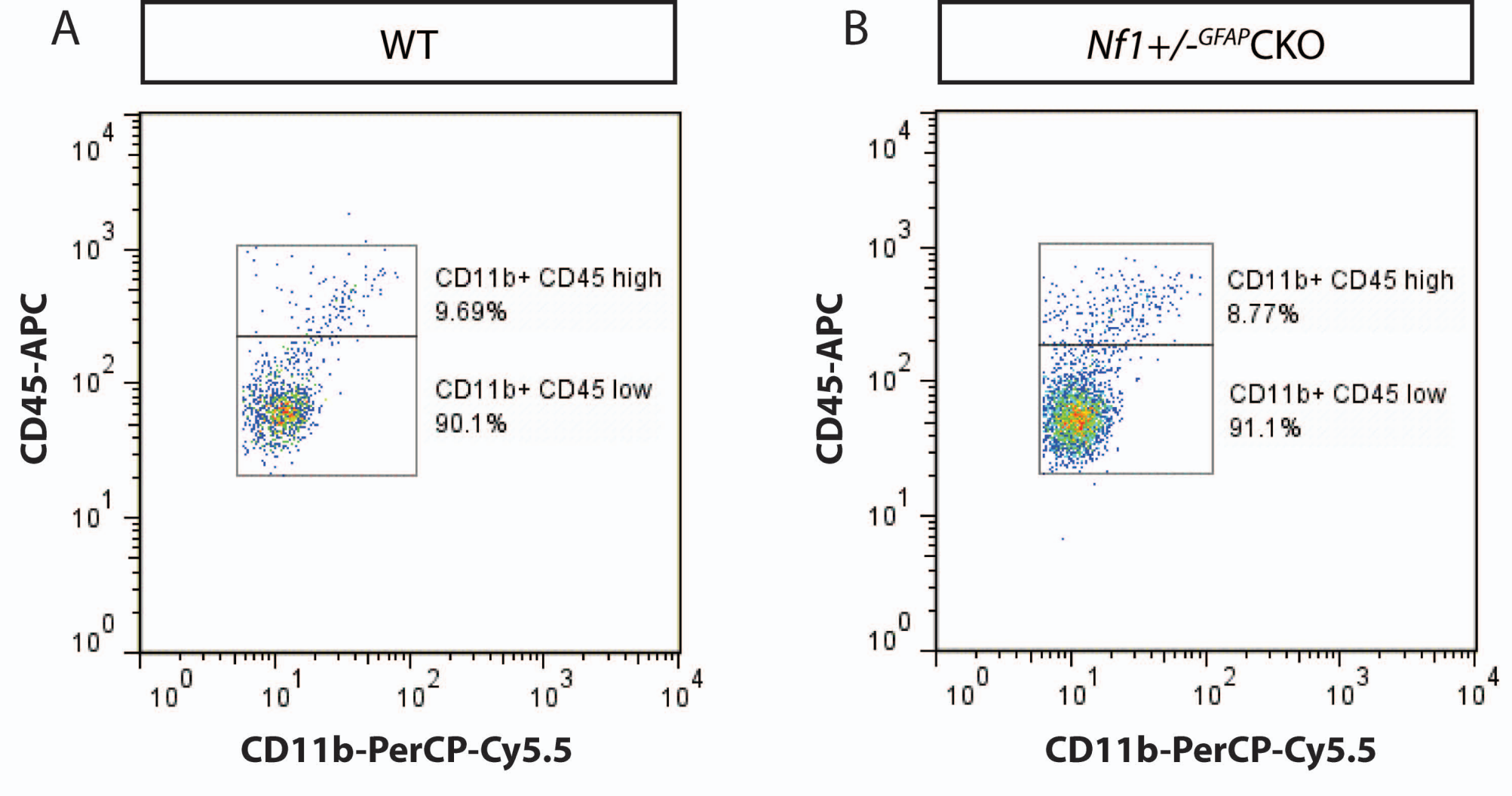
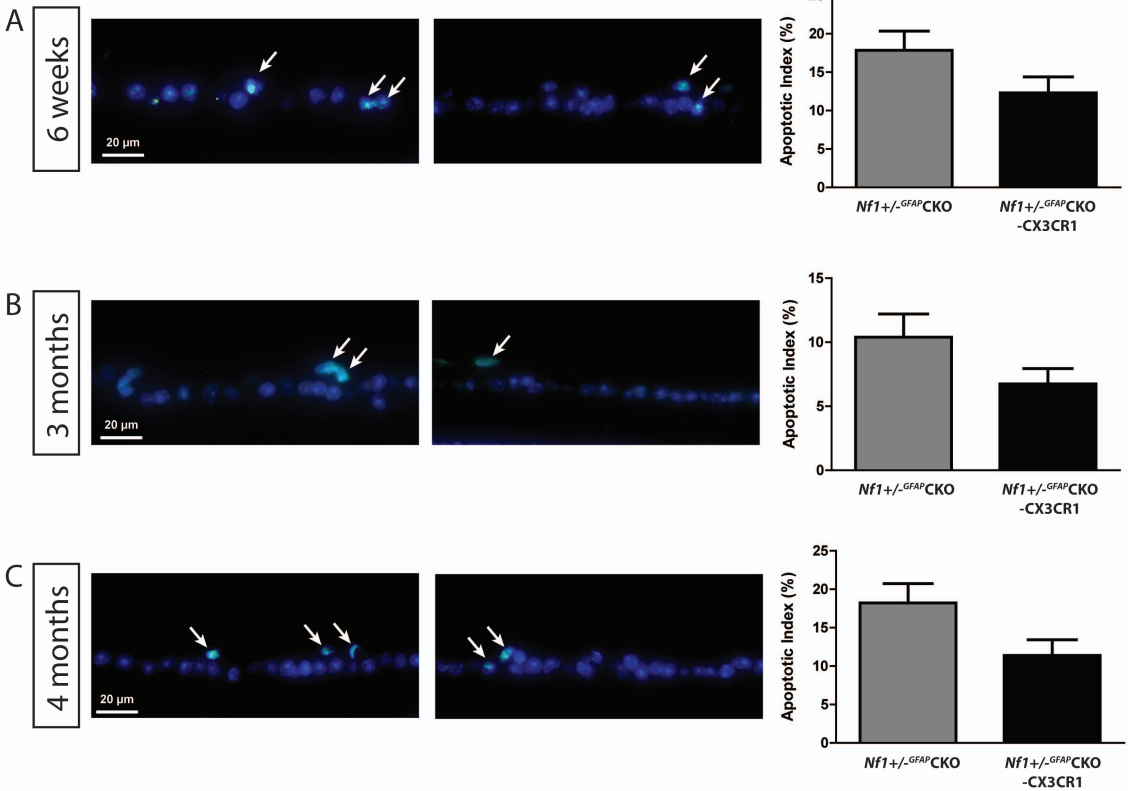

Treatment Schematic
A
4 wks
6 wks
Birth
Ganciclovir
3 months
B
Vehicle
Ganciclovir
Volume
500 µm
Volume (mm3)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Vehicle
Ganciclovir
Ki67
100 µm
% Ki67+ cells
6
4
2
0
*
Vehicle
Ganciclovir
Iba1
100 µm
% Iba1+ cells
8
6
4
2
0
Vehicle
Ganciclovir
C
20 µm
Apoptotic Index (%)
15
10
5
0
*
Vehicle
Ganciclovir


A
Relative Expression
1.5
1.0
0.5
0.0
**
optic nerve
retina
gut
muscle
WT
Nf1+/-GFAPCKO
Relative Expression
2.0
1.5
1.0
0.5
0.0
6 week optic nerve
3 month optic nerve
B
GFP
Iba1
100 µm
25 µm
C
GFP
DAPI
Iba1
DAPI
GFP
Iba1
DAPI
25 µm
D
GFP
DAPI
CX3CR1
DAPI
GFP
CX3CR1
DAPI
25 µm
E
GFP
DAPI
GFAP
DAPI
GFP
GFAP
DAPI
25 µm


A
WT
WT-CX3CR1
Ki67
Iba1
100 µm
100 µm
% Ki67+ cells
0.6
0.4
0.2
0.0
WT
WT-CX3CR1
% Iba1+ cells
4
3
2
1
0
WT
WT-CX3CR1
B
Nf1+/-
Nf1+/- -CX3CR1
Ki67
Iba1
100 µm
100 µm
% Ki67+ cells
1.5
1.0
0.5
0.0
Nf1+/-
Nf1+/- -CX3CR1
*
% Iba1+ cells
6
4
2
0
Nf1+/-
Nf1+/- -CX3CR1


A
WT
B
Nf1+/-GFAPCKO
CD45-APC
CD11b-PerCP-Cy5.5
CD11b+ CD45 high
9.69%
CD11b+ CD45 low
90.1%
CD11b+ CD45 high
8.77%
CD11b+ CD45 low
91.1%


A
6 weeks
20 µm
Apoptotic Index (%)
25
20
15
10
5
0
Nf1+/-GFAPCKO
Nf1+/-GFAPCKO -CX3CR1
B
3 months
20 µm
Apoptotic Index (%)
15
10
5
0
Nf1+/-GFAPCKO
Nf1+/-GFAPCKO -CX3CR1
C
4 months
20 µm
Apoptotic Index (%)
25
20
15
10
5
0
Nf1+/-GFAPCKO
Nf1+/-GFAPCKO -CX3CR1