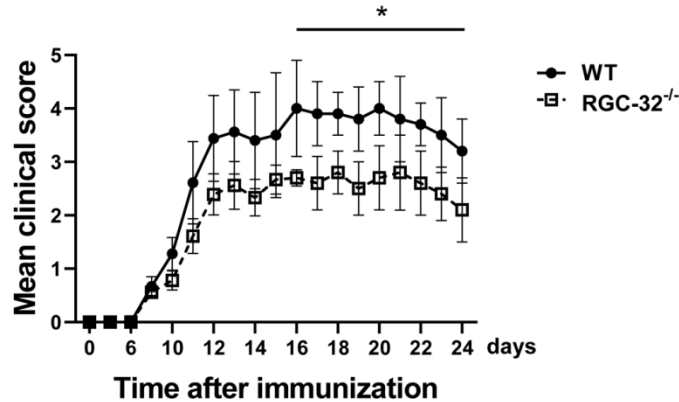


Supplementary Material

1. Tables

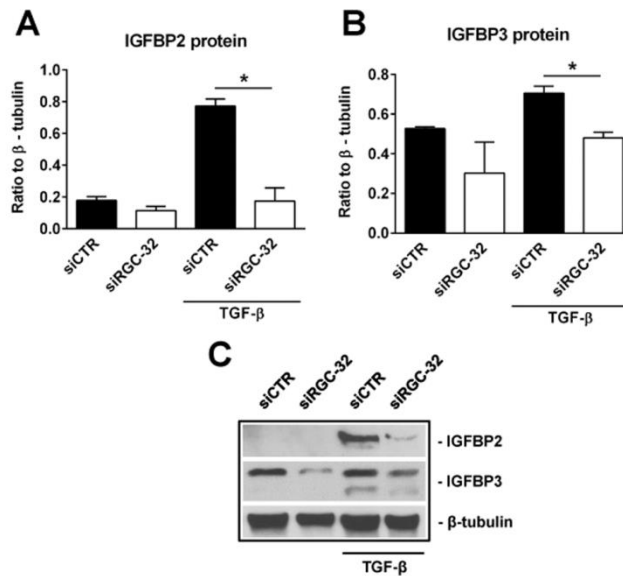
Supplementary table Mouse primers used for Real Time PCR	
Gene symbol	Primers sequence
CTGF	For: 5'- CCTGCCCTAGCTGCCTAC -3' Rev: 5'- GCACTTTTTGCCCTTCTTAA -3'
IGF1	For: 5'- GCTGCTGAAGCCATTCATTTAG -3' Rev: 5'- CGTGGGAAGAGGTGAAGATAAG -3'
IGFBP2	For: 5'- GGTGCCAAACACCTCAGTCT -3' Rev: 5'- GGAGATCCGCTCCAGGAC -3'
IGFBP3	For: 5'- GCAGCCTAAGCACCTACC -3' Rev: 5'- GCTTAGACTGCCAGGAGAAGTTC -3'
MMP2	For: 5'- GTTCAACGGTCGGGAATACA -3' Rev: 5'- GCCATACTTGCCATCCTTCT -3'
MMP9	For: 5'- CTGGAACTCACACGACATCTT -3' Rev: 5'- TCCACCTTGTTACCTCATTT -3'
18S	For: 5'- GTAACCCGTTGAACCCATT -3' Rev: 5'- CCATCCAATCGGTAGTAGCG -3'

2. Figures



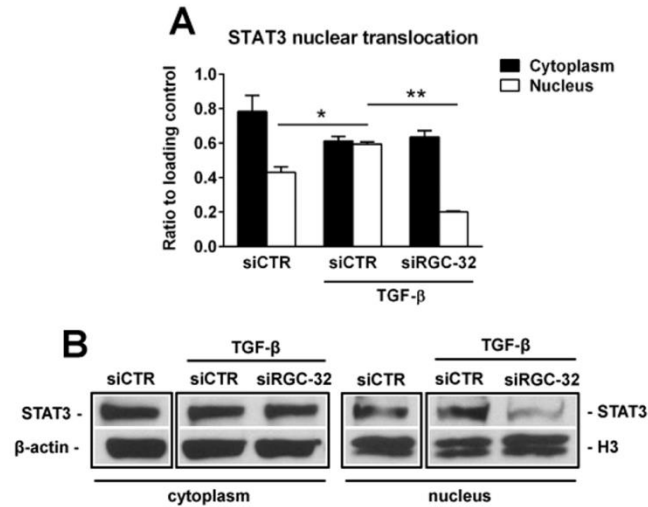
Supplementary Figure 1. Lack of RGC-32 attenuates the clinical course of EAE

WT and RGC-32 KO mice were immunized with MOG₃₅₋₅₅ and then clinical scores were determined during EAE as described in Materials and Methods. Data are expressed as mean \pm SEM of clinical EAE scores and are representative of three independent experiments (6 mice for each group/ experiment). * = $p < 0.05$.



Supplementary Figure 2. RGC-32 silencing affects the expression of IGFBP2 and IGFBP3 proteins in rat astrocytes

Cultured rat astrocytes were transfected with siRGC-32 or siCTR using Lipofectamine 3000, then stimulated with TGF- β (10 ng/ml) for 24 h. RGC-32 silencing significantly reduced the protein expression of IGFBP2 (**A**) and IGFBP3 (**B**) when compared with that of siCTR. The protein expression was normalized to β -tubulin. A representative blot for each protein is shown in **C**. Results are expressed as mean \pm SEM ($n=3$). * = $p < 0.05$.



Supplementary Figure 3. STAT3 nuclear translocation depends on RGC-32

Primary rat astrocytes were transfected with siRGC-32 or siCTR using Lipofectamine 3000, then stimulated with TGF- β (10 ng/ml) for 4 h. Cell lysates were separated into cytoplasmic and nuclear fractions and then analyzed by Western blotting. TGF- β treatment resulted in a significant increase in STAT3 nuclear translocation, and this process was greatly reduced when RGC-32 was silenced. The results are expressed as ratios to β -actin for the cytoplasmic fraction and to histone H3 for the nuclear fraction. Representative blots are shown in **B**. Data in **A** are shown as mean \pm SEM (n=3). * = p<0.05; ** = p<0.01.