

Supplementary materials

Supplementary Figure 1. Purity of primary cultured microglia. (A) Phase-contrast image of primary cultured microglia. (B) Purity of microglia was identified by Iba1 staining. Scale bar = 30 μ m. (C) Quantification of the Iba1-positive microglia. Note that about 90% of the cells are Iba1 positive.

Supplementary Figure 2. Effects of OECs-Exo on expression of IRF3 and p-c-Jun upon LPS treatment. (A) The mRNA level of IRF3 in microglia under normal condition, LPS or LPS plus OECs-Exo treatment. (B) Quantification of expression level of p-c-Jun in microglia under control, LPS or LPS plus OECs-Exo treatment. N = 3, *P < 0.05, **P < 0.01. (C) Immunostaining of p-c-Jun and F4/80. Scale bar = 30 μ m. (D-E) Quantification of the IFI/area and the nuclei/cytosol fluorescence intensity ratio of p-c-Jun. Note that OECs-Exo significantly suppressed the increased IFI and nuclear translocation of p-c-Jun induced by LPS. N = 3, *P < 0.05, **P < 0.01, ***P < 0.001.

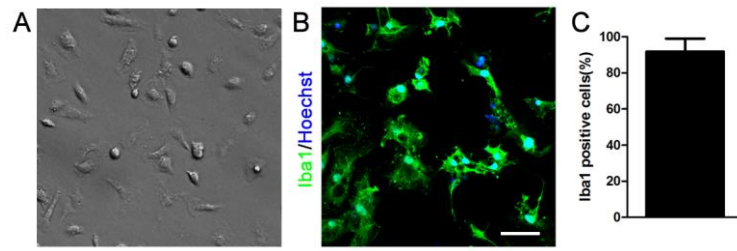
Supplementary Figure 3. (A) Representative confocal microscopy images showing uptake of OECs-Exo (red) by microglia/macrophages (green) in spinal cord at 1dpi, 5dpi, 10dpi. Scale bar=50 μ m. (B) Quantification of the percentage of internalization of OECs-Exo by microglia/macrophages. Results are presented as mean \pm SEM. N = 3/group.

Supplementary Figure 4. Full gels of CD63, CD9, pNF- κ B, NF200, p-c-Jun, β -actin and GAPDH.

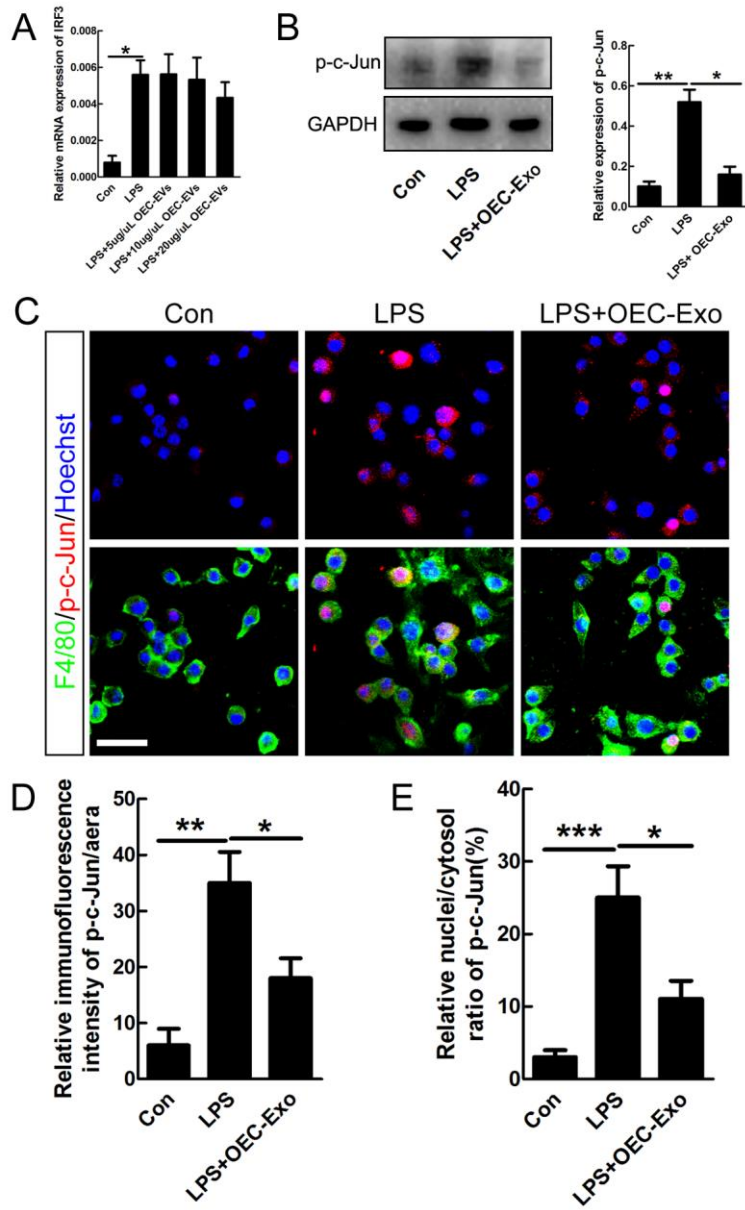
Sup Table 1. PCR primer sequences

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
iNOS	GCCTAGTCAACTACAAGCCCC	AGAAACTTCCAGGGGCAAGC
CD86	AGACATGTGTAACCTGCACCAT	ACTTTTTCCGGTCCTGCCAA
IL-12	GTGTCAATCACGCTACCTCCT	CTTGGCAGGTCCAGAGACTG
IL-18	CAGCTCTTCTACCAGCAAACAT	CTTCCAAGTCCAGAGGCTGTGC
CD206	GAGGACTGCGTGGTGATGAA	CATGCCGTTTCCAGCCTTTC
Arginase1	AAGATGTGCCCTCTGTCTTTTAG	CCCCTCCTCGAGGCTGTC
IL-4	CCTTGCTGTCAACCCTGTTCT	CGGTGCAITGGAGTCCCTTTT
IL-10	CGCTGTCATCGATTTCTCCC	TAGACACCTTTGTCTTGGAGCTTAT
TNF α	ATGGGCTCCCTCTCATCAGT	GCTTGGTGGTTTGTCTACGAC
IRF-3	TGGCTGCGAGTCTCAACTAC	CAGTTCCTGAGCCAGGGGAG
GAPDH	GGCTCTCTGCTCCTCCCT	GTCTATGAGACGAGGCTGGC

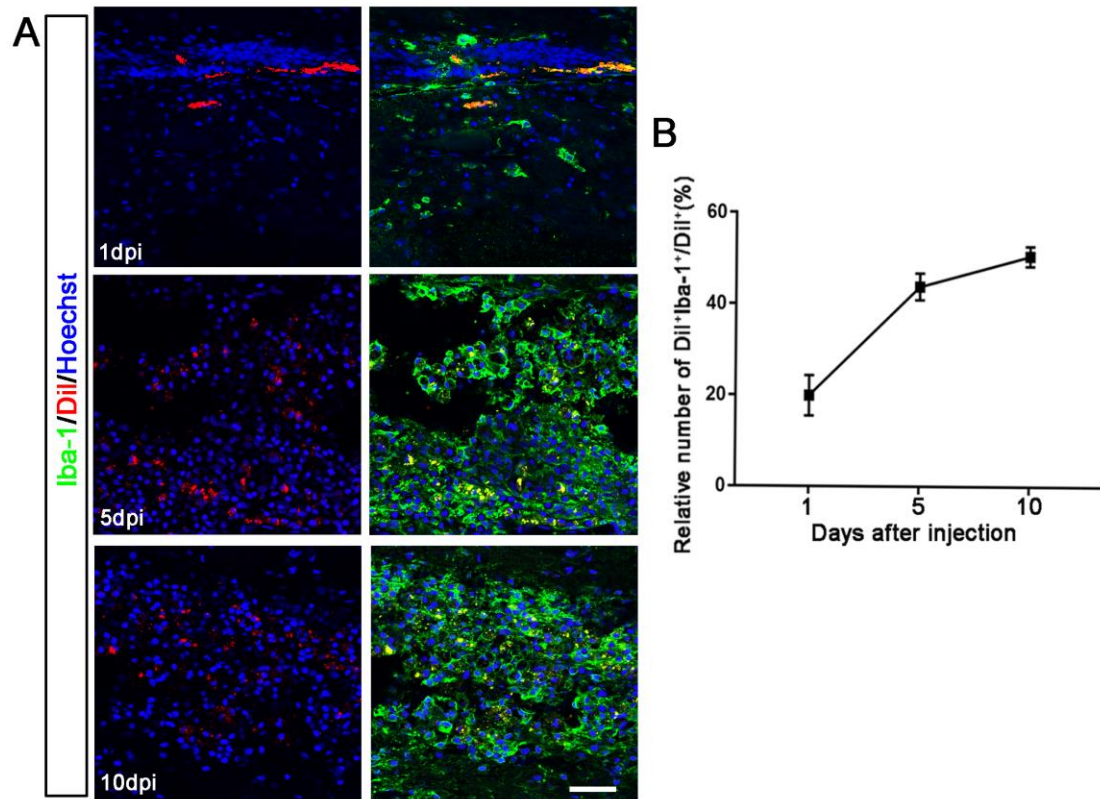
Sup Figure 1



Sup Figure 2



Sup Figure 3



Sup Figure 4

Fig 1F

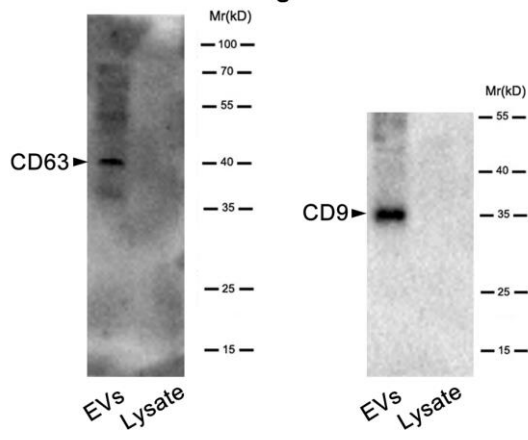


Fig 4A

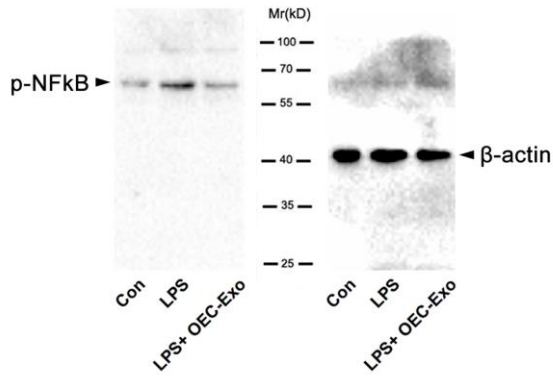
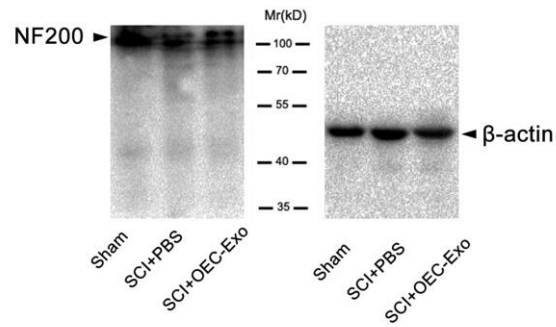


Fig 6G



sup Fig 2B

