Table 1

The animal groups, viral serotype, viral vector, viral titer and injection volume of each spinal cord dorsal horn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Animal groups | viral serotype | viral vector | | viral titer and injection volume |
| Syn-shRNA GRK2 | AAV2/9 | | pAAV-SYN-MCS-eGFP-3FLAG-GRK2 shRNA | 9.91×1012GC/600nl |
| Syn-eGFP | AAV2/9 | | pAAV-SYN-MCS-eGFP-3FLAG | 7.63×1012GC/600nl |
| AAV-GRK2 | AAV2/8 | | rAAV-CMV-DIO-GRK2-P2A-eGFP-WPREs | 5.7×1012GC/600nl |
| AAV-eGFP | AAV2/8 | | rAAV-CMV-DIO-P2A-eGFP-WPREs | 2.18×1012GC/600nl |
| AAV-GRK2  AAV-eGFP | AAV2/8 | | rAAV-hSyn-creERT2-WPRE-hGHpA | 5.42×1012GC/300nl |

*AAV, Adeno-associated Virus.*

Table 2

Information for primary antibodies

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Cat number | Supplier | Application |
| Rabbit anti-GRK2 | Sc-562 | SANTA CRUZ | WB: 1:300 |
| Sheep anti-TREM2 | AF1729 | R&D | WB: 1:500 |
| Rabbit anti-DAP12 | LS-B9453 | LSBio | WB: 1:500 |
| HRP anti-β-actin | HRP-60008 | ProteinTech | WB: 1:10,000 |
| Mouse anti-GAPDH | HRP-60004 | ProteinTech | WB: 1:10,000 |
| Rabbit anti-PGP9.5 | 7863-0504 | AbD Serotec | IF: 1:2000 |

*WB, western blot; IF, Immunofluorescence; HRP, Horseradish peroxidase.*

Table 3

Primes for real-time PCR

|  |  |  |
| --- | --- | --- |
| Gene | Primer forward (5’–3’) | Primer reverse (5’–3’) |
| CD16 | 5’ AGA CCC AGC AAC TAC ATC C | 5’ GAC TTC CTC CAG TAA TCC CT |
| CD206 | 5’ GCT TCC GTC ACC CTG TAT G | 5’ CTC CAC AAT CCC GAA CCT |
| IL-4 | 5’ CCA TGA ATG AGT CCA AGT CC | 5’ TGA TGC TCT TTA GGC TTT CC |
| IL-10 | 5’ GGG AAG AGA AAC CAG GGA GA | 5’ GGG GAT GAC AGT AGG GGA AC |
| iNOS | 5’TTG ACG CTC GGA ACT GTA G | 5’ GAC CTG ATG TTG CCA TTG T |
| IL-1β | 5’GTA CAA GGA GAA CCA AGC AA | 5’ CCG TCT TTC ATT ACA CAG GA |
| IL-6 | 5’ CCA ATG CTC TCC TAA CAG AT | 5’ TGT CCA CAA ACT GAT ATG CT |
| TNF-α | 5’ ACT CTG ACC CCT TTA CTC TG | 5’ GAG CCA TAA TCC CCT TTC TA |
| TGF-β | 5’GAC CGC AAC AAC GCC ATC TAT | 5’CAC TGC TTC CCG AAT GTC TGA |
| GAPDH | 5’ AAA TGG TGA AGG TCG GTG TG | 5’ AGG TCA ATG AAG GGG TCG TT |
| TREM2 | 5’ CTG GAA CCG TCA CCA TCA CTC | 5’ CGA AAC TCG ATG ACT CCT CGG |
| DAP12 | 5’GAG TGA CAC TTT CCC AAG ATG C | 5’CCT TGA CCT CGG GAG ACC A |

*CD, Cluster of Differentiation; IL, Interleukin; iNOS, Inducible Nitric Oxide Synthase; TNF, Tumor Necrosis Factor; TGF, transforming growth factor; TREM2, Triggering receptor expressed on myeloid cells 2; DAP12, DNAX-activating protein of 12 kDa.*