

Additional File 2: List of primary and secondary antibodies, and dilutions used for western blot analysis.

| Primary antibody                                    | Abbreviation | Company                             | Host   | Dilution |
|-----------------------------------------------------|--------------|-------------------------------------|--------|----------|
| Argonaute-2                                         | Ago2         | Cell Signaling, MA, USA             | Rabbit | 1:500    |
| Neuropilin-1                                        | NRP1         | Origene, MD, USA                    | Rabbit | 1:500    |
| Vascular endothelial-cadherin                       | VE-cadherin  | St John's Laboratory, London, UK    | Rabbit | 1:1000   |
| Glial fibrillary acidic protein                     | GFAP         | BD Biosciences, CA, USA             | Mouse  | 1:1000   |
| Glial cell line-derived neurotrophic factor         | GDNF         | Santa Cruz Biotechnology, CA, USA   | Rabbit | 1:250    |
| TNF receptor-associated factor 6                    | TRAF6        | Thermo Fisher Scientific, MA, USA   | Rabbit | 1:1000   |
| Cluster of differentiation molecule 11b             | CD11b        | St John's Laboratory, London, UK    | Rabbit | 1:500    |
| Phosphorylated p38 mitogen-activated protein kinase | Pp38         | Cell Signaling, MA, USA             | Rabbit | 1:1000   |
| p38 mitogen-activated protein kinase (total levels) | Total p38    | Cell Signaling, MA, USA             | Rabbit | 1:1000   |
| Endothelial nitric oxide synthase                   | eNOS         | BD Biosciences, CA, USA             | Mouse  | 1:1000   |
| Inducible nitric oxide synthase                     | iNOS         | BD Biosciences, CA, USA             | Rabbit | 1:1000   |
| NADPH oxidase 2                                     | NOX2         | BD Biosciences, CA, USA             | Mouse  | 1:1000   |
| NADPH oxidase cytosolic protein p47phox             | p47phox      | St John's Laboratory, London, UK    | Rabbit | 1:1000   |
| Ionized calcium-binding adapter molecule-1          | Iba-1        | Santa Cruz Biotechnology, CA, USA   | Mouse  | 1:200    |
| S100 calcium-binding protein B                      | S100B        | BD Biosciences, CA, USA             | Mouse  | 1:5000   |
| cAMP-response element binding protein               | CREB         | Cell Signaling, MA, USA             | Rabbit | 1:1000   |
| Microtubule-associated protein 2                    | MAP2         | Santa Cruz Biotechnology, CA, USA   | Rabbit | 1:1000   |
| Postsynaptic density protein 95                     | PSD-95       | Merck Millipore, Darmstadt, Germany | Mouse  | 1:1000   |

  

| Secondary antibody | Abbreviation | Company                           | Host | Dilution |
|--------------------|--------------|-----------------------------------|------|----------|
| Anti-rabbit        | Anti-rabbit  | Santa Cruz Biotechnology, CA, USA | Goat | 1:5000   |
| Anti-mouse         | Anti-mouse   | Santa Cruz Biotechnology, CA, USA | Goat | 1:10000  |

  

| Housekeeping targets                     | Abbreviation | Company                             | Host  | Dilution |
|------------------------------------------|--------------|-------------------------------------|-------|----------|
| Tubulin                                  | Tubulin      | Sigma, MO, USA                      | Mouse | 1:5000   |
| Actin                                    | Actin        | BD Biosciences, CA, USA             | Mouse | 1:5000   |
| Glyceraldehyde 3-phosphate dehydrogenase | GAPDH        | Merck Millipore, Darmstadt, Germany | Mouse | 1:5000   |