**Supplementary Table 1.** Antibodies.

|  |  |  |
| --- | --- | --- |
| **Protein** | **Supplier** | **Catalog number** |
| α-tubulin | Sigma-Aldrich | T6074 |
| β-actin | Sigma-Aldrich | A2228 |
| Akt | Cell Signaling Technology | 9279 |
| Akt phosphor-Ser473 | Cell Signaling Technology | 9271 |
| Erk1/2 | Cell Signaling Technology | 9107 |
| Erk1/2 phosphor-Thr202/Tyr204 | Cell Signaling Technology | 9101 |
| GLUT4 | Cell Signaling Technology | 2213 |
| IR | Cell Signaling Technology | 3020 |
| IR/IGF1R phosphor-Tyr1150/1151, Tyr1135/1136 | Cell Signaling Technology | 3024 |
| JNK phosphor-Thr183/Tyr185 | Cell Signaling Technology | 9251 |
| p38 MAPK phosphor-Thr180/Tyr182 | Cell Signaling Technology | 4511 |
| p38 MAPK | Cell Signaling Technology | 9212 |

**Supplementary Table 2.** Primer sequences

|  |  |  |
| --- | --- | --- |
| **Gene** | **Forward primer** | **Reverse primer** |
| *18s* | GATCCATTGGAGGGCAAGTCT | CCAAGATCCAACTACGAGCTTTTT |
| *Agr1* | TCCACACGTCCAGAACAGTC | CCTTGGAAACAGAGACAGGC |
| *B2m* | CTGCTACGTAACACAGTTCCACCC | CATGATGCTTGATCACATGTCTCG |
| *Cd68* | CTTCCCACAGGCAGCACAG | AATGATGAGAGGCAGCAAGAGG |
| *Fgf21* | CAAGACACTGAAGCCCACCT | CACCCAGGATTTGAATGACC |
| *G6p* | TGCAAGGGAGAACTCAGCAA | GGACCAAGGAAGCCACATG |
| *Gk* | CCCTGAGTGGCTTACAGTTC | ACGGATGTGAGTGTTGAAGC |
| *Ilb* | CTGAACTCAACTGTGAAATGCCA | AAAGGTTTGGAAGCAGCCCT |
| *Mcp1* | AGG TCCCTGTCATGCTTCTGG | AGGAGCTGTCATTAGGGACATC |
| *Mgl2* | TTAGCCAATGTGCTTAGCTGG | GGCCTCCAATTCTTGAAACCT |
| *Pepck* | GTGTTTGTAGGAGCAGCCATGAGA | GCCAGTGGGCCAGGTATTTG |
| *Tnfa* | CCCACACCGTCAGCCGATTT | GTCTAAGTACTTGGGCAGATTGACC |