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| **Supplementary table 1. Antibodies used in the experiments.** |
| **Antibodies** | **Vendor, Cat Num**  | **Species raised in; monoclonal or polyclonal** | **Dilution used** |
| **Primary Antibody** |  |  |  |
| Actin | Cell Signaling Technology, 12620 | Rabbit; monoclonal | 1:6000 |
| Akt1/2/3 (H-136) | Santa Cruz Biotechnology, sc-8312 | Rabbit; polyclonal | 1:1000 |
| AMPKα Antibody | Cell Signaling Technology, 2793 | Mouse; monoclonal | 1:1000 |
| c-Jun (60A8) rabbit mAb | Cell Signaling Technology, 9165 | Rabbit; monoclonal | 1:1000 |
| ERK1 (C16) | Santa Cruz Biotechnology, sc-93 | Rabbit; polyclonal | 1:1000 |
| JNK1 (F3) | Santa Cruz Biotechnology, sc-1648 | Mouse; monoclonal | 1:1000 |
| p38 MAPK Antibody | Cell Signaling Technology, 9212 | Rabbit; polyclonal | 1:1000 |
| PKCα Antibody | Cell Signaling Technology, 2056 | Rabbit; polyclonal | 1:1000 |
| Stat3 Mouse mAb | Cell Signaling Technology, 9139 | Mouse; monoclonal | 1:1000 |
| Phospho-Akt (Ser473) Antibody | Cell Signaling Technology, 4058 | Rabbit; monoclonal | 1:1000 |
| Phospho-AMPK (Thr172) rabbit mAb | Cell Signaling Technology, 2535 | Rabbit; monoclonal | 1:1000 |
| phospho-c-Jun (KM-1) | Santa Cruz Biotechnology,sc-822 | Mouse; monoclonal | 1:1000 |
| phospho-JNK (G7) | Santa Cruz Biotechnology,sc-6254 | Mouse; monoclonal | 1:1000 |
| Phospho-p44/42 MAPK(Erk1/2)(Thr202/Tyr204) Antibody | Cell Signaling Technology, 9101 | Rabbit; polyclonal | 1:1000 |
| Phospho-Stat3 (Tyr705) rabbit mAb | Cell Signaling Technology, 9145 | Rabbit; monoclonal | 1:1000 |
| Phospho-p38 MAP Kinase (Thr180/Tyr182) Antibody | Cell Signaling Technology, 9211 | Rabbit; polyclonal | 1:1000 |
| Phospho-PKCα/β II (Thr638/641) Antibody | Cell Signaling Technology, 9375 | Rabbit; polyclonal | 1:1000 |
| **Secondary Antibody** |  |  |  |
| Anti-mouse IgG, HRP-linked Antibody | Cell Signaling Technology, 7076 | Horse; polyclonal  | 1:2000 |
| Anti-rabbit IgG, HRP-linked Antibody | Cell Signaling Technology, 7074 | Goat; polyclonal | 1:2000 |