**Supplementary Table 1. Primary antibodies used for immunohistochemistry.**

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| **Protein**  | **Dilution** | **Antibody** |
| Aldolase A | 1/100 c, p, ON | rabbit polyclonal3 |
| Cytokeratin 18  | 1/100 | mouse monoclonal4 |
| FASN  | 1/100 c, p, ON | mouse monoclonal2 |
| GLUT4  | 1/25 c, ON | mouse monoclonal1 |
| HMGCoAR  | 1/25 c, ON | goat polyclonal6 |
| IGLK  | 1/25 c, ON | rabbit polyclonal6 |
| Insulin receptor  | 1/25 c, ON | rabbit polyclonal6 |
| IRS1 | 1/25 c, ON | rabbit polyclonal6 |
| Pan-AKT | 1/100 c, ON | rabbit monoclonal3 |
| Pan-ERK | 1/100 c, ON | mouse monoclonal2 |
| PKM2  | 1/100 c, p, ON | rabbit monoclonal3 |
| p-mTOR | 1/100 c, ON | rabbit monoclonal3 |
| raf-1 | 1/100 c, ON | rabbit polyclonal7 |
| Ras  | 1/100 c, ON | mouse monoclonal2 |
| SCD-1 | 1/100 c, p, ON | rabbit polyclonal7 |

1Abcam (Cambridge, UK); 2BD Biosciences (San Diego, CA, USA); 3Cell Signaling Technology (Danvers, MA, USA); 4Dako (Glostrup, Denmark); 5DCS Innovative Diagnostik-Systeme (Hamburg, Germany); 6Santa Cruz Biotechnology (Dallas, TX, USA); 7Sigma-Aldrich (St Louis, MO, USA). \*For detecting the primary goat antibody with the Ultravision LP detection system (Thermo Fisher Scientific, Waltham, MA, USA), a bridging rabbit-anti-goat antibody (KPL, Gaithersburg, MD, USA) was used. ON, overnight incubation; c, cryosection; p, paraffin section.