**Supplemental Table 1. Primary Antibodies**

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| --- | --- | --- |
| Product Name | Catalog Number | Company |
| anti–insulin receptor substrate 1(IRS1) | 06-248 | Merck Millipore |
| anti-AKT | 9272 | Cell Signaling Technology |
| anti–phospho-AKT (ser473) | 9271 | Cell Signaling Technology |
| anti–phospho-IRS1 (ser307) | 05-1087 | Merck Millipore |
| anti–phospho-IRS1 (Ser636/639) | 2388 | Cell Signaling Technology |
| Anti–-phospho-IRS1 (Ser1101)  | 2385 | Cell Signaling Technology |
| anti–protein tyrosine phosphatase 1B  | ab252928 | Abcam |
| anti–insulin receptor β | 3025 | Cell Signaling Technology |