**Supplementary Table 2.** The absorbance at 450 nm of PIK3CB by indirect ELISA. The non OVCCA: non-*O. viverrini* infected and non-cholangiocarcinoma subjects, OV: *O. viverrini* infected subjects, CCA: cholangiocarcinoma subjects

|  |  |
| --- | --- |
| **No.** | **Group** |
| **non-OVCCA** | **OV** | **CCA** |
| 1 | 0.707 | 0.945 | 1.240 |
| 2 | 0.767 | 0.952 | 1.394 |
| 3 | 0.858 | 1.449 | 1.430 |
| 4 | 0.931 | 1.456 | 1.596 |
| 5 | 0.967 | 1.569 | 1.637 |
| 6 | 0.983 | 1.570 | 1.657 |
| 7 | 0.995 | 1.587 | 1.666 |
| 8 | 1.080 | 1.598 | 1.685 |
| 9 | 1.084 | 1.599 | 1.687 |
| 10 | 1.098 | 1.619 | 1.714 |
| 11 | 1.155 | 1.651 | 1.774 |
| 12 | 1.215 | 1.686 | 1.798 |
| 13 | 1.307 | 1.707 | 1.838 |
| 14 | 1.325 | 1.724 | 1.974 |
| 15 | 1.357 | 1.751 | 2.009 |
| 16 | 1.461 | 1.774 | 2.084 |
| 17 | 1.475 | 1.861 | 2.093 |
| 18 | 1.488 | 1.865 | 2.160 |
| 19 | 1.542 | 1.924 | 2.176 |
| 20 | 1.549 | 1.942 | 2.213 |
| 21 | 1.559 | 1.972 | 2.240 |
| 22 | 1.567 | 1.978 | 2.272 |
| 23 | 1.631 | 1.980 | 2.277 |
| 24 | 1.685 | 2.033 | 2.279 |
| 25 | 1.716 | 2.043 | 2.298 |
| 26 | 1.751 | 2.239 | 2.495 |
| 27 | 1.760 | 2.365 | 2.534 |
| 28 | 1.934 | 2.437 | 2.615 |
| 29 | 2.007 | 2.507 | 2.948 |
| 30 | 2.059 | 2.531 | 3.000 |
| 31 | 2.185 | 2.808 | 3.182 |
| 32 | 2.224 | 2.945 | 3.522 |
| 33 | 1.296 | 1.986 | 0.950 |
| 34 | 0.661 | 1.044 | 1.473 |
| 35 | 1.157 | 0.746 | 2.356 |
| 36 | 1.085 | 1.621 | 1.554 |
| 37 | 1.433 | 1.647 | 1.312 |
| 38 | 1.813 | 1.742 | 2.013 |
| 39 | 1.426 | 1.290 | 2.038 |
| 40 | 1.265 | 1.669 | 1.497 |
| 41 | 1.667 | 1.729 | 1.970 |
| 42 | 1.195 | 1.640 | 1.401 |
| 43 | 1.076 | 1.730 | 1.008 |
| 44 | 1.608 | 1.620 | 2.271 |
| 45 | 1.228 | 1.741 | 1.231 |
| 46 | 1.385 | 1.741 | 1.644 |
| 47 | 1.310 | 1.788 | 0.912 |
| 48 | 1.121 | 1.354 | 1.118 |
| 49 | 1.506 | 1.252 | 1.116 |
| 50 | 1.664 | 0.875 | 1.102 |
| Min | 0.661 | 0.746 | 0.912 |
| Max | 2.224 | 2.945 | 3.522 |
| Mean | 1.386 | 1.746 | 1.889 |
| SD | 0.369 | 0.449 | 0.584 |