Supplementary table 1: Interdependencies of LAG3, CD8 and TP53 mutation types. LAG3 and CD8 expression displayed in three categories. Subgroup row percentages in parentheses.

| TP53 mutation | LAG3 score | CD8 score | p | p |
|---------------|------------|-----------|---|---|
|               | < 1% TILs  | 1-2% TILs | ≥ 3% TILs | < 10 / spot | 10-100 / spot | > 100 / spot |
| wildtype      | 55 (82.1)  | 6 (9)     | 6 (9)     | 18 (25.7)   | 37 (52.9)    | 15 (21.4)    | < 0.001 |
| nultype       | 4 (33.3)   | 6 (50)    | 2 (16.7)  | 2 (16.7)    | 4 (33.3)     | 6 (50)       | n.s. |
| overexp.      | 11 (57.9)  | 1 (5.3)   | 7 (36.8)  | 3 (15.8)    | 11 (57.9)    | 5 (26.3)     | |
| CD8           | < 10 / spot| 24 (92.3) | 2 (7)     | 0 (0)       | 3 (15.8)     | 11 (57.9)    | 5 (26.3)     | < 0.001 |
|              | 10-100 / spot| 37 (74) | 9 (18)    | 4 (8)       | |
|              | > 100 / spot| 13 (48.1) | 3 (11)    | 11 (40.7)   | |
| Total         | 74 (71.8)  | 14 (13.6) | 15 (14.6) | 26 (24.5)   | 53 (50)      | 27 (25.5)    |