

**S16 Table.** The detailed information of PD-L1 expression and sampling in 116 patients who were available for PD-L1 expression

| Gene panel | Cancer type              | Methods of obtaining samples | PD-L1 (%) | PD-L1 group (%) |
|------------|--------------------------|------------------------------|-----------|-----------------|
| 295        | Melanoma                 | Surgery                      | 0         | ≤ 1             |
| 295        | Pancreatic carcinoma     | Biopsy                       | 30        | > 1             |
| 295        | Esophageal carcinoma     | Surgery                      | 2         | > 1             |
| 295        | Melanoma                 | Surgery                      | 0         | ≤ 1             |
| 295        | Gastric cancer           | Biopsy                       | 0         | ≤ 1             |
| 295        | Lung cancer              | Biopsy                       | 90        | > 1             |
| 295        | Esophageal carcinoma     | Biopsy                       | 0         | ≤ 1             |
| 295        | Carcinoma of other sites | Biopsy                       | 35        | > 1             |
| 295        | Lung cancer              | Biopsy                       | 0         | ≤ 1             |
| 295        | Lung cancer              | Biopsy                       | 5         | > 1             |
| 295        | Melanoma                 | Surgery                      | 0         | ≤ 1             |
| 295        | Liver cancer             | Surgery                      | 0         | ≤ 1             |
| 295        | Carcinoma of other sites | Surgery                      | 40        | > 1             |
| 295        | Colorectal cancer        | Surgery                      | 0         | ≤ 1             |
| 295        | Lung cancer              | Biopsy                       | 5         | > 1             |
| 295        | Lung cancer              | Surgery                      | 90        | > 1             |
| 295        | Lung cancer              | Biopsy                       | 15        | > 1             |
| 295        | Lung cancer              | Surgery                      | 70        | > 1             |
| 295        | Lung cancer              | Surgery                      | 49        | > 1             |
| 295        | Liver cancer             | Surgery                      | 5         | > 1             |
| 295        | Gastric cancer           | Biopsy                       | 30        | > 1             |
| 295        | Melanoma                 | Surgery                      | 30        | > 1             |
| 295        | Pancreatic carcinoma     | Surgery                      | 0         | ≤ 1             |
| 295        | Melanoma                 | Surgery                      | 0         | ≤ 1             |
| 295        | Sarcoma                  | Biopsy                       | 80        | > 1             |
| 295        | Lung cancer              | Surgery                      | 75        | > 1             |
| 295        | Carcinoma of other sites | Biopsy                       | 20        | > 1             |
| 295        | Liver cancer             | Surgery                      | 0         | ≤ 1             |

|     |                          |         |    |     |
|-----|--------------------------|---------|----|-----|
| 295 | Ovarian cancer           | Surgery | 3  | > 1 |
| 295 | Sarcoma                  | Surgery | 0  | ≤ 1 |
| 295 | Carcinoma of other sites | Surgery | 0  | ≤ 1 |
| 295 | Carcinoma of other sites | Surgery | 30 | > 1 |
| 295 | Lung cancer              | Biopsy  | 90 | > 1 |
| 295 | Carcinoma of other sites | Surgery | 20 | > 1 |
| 295 | Carcinoma of other sites | Surgery | 10 | > 1 |
| 295 | Melanoma                 | Surgery | 60 | > 1 |
| 295 | Liver cancer             | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Surgery | 20 | > 1 |
| 295 | Melanoma                 | Biopsy  | 25 | > 1 |
| 295 | Sarcoma                  | Surgery | 60 | > 1 |
| 295 | Sarcoma                  | Biopsy  | 0  | ≤ 1 |
| 295 | Lung cancer              | Biopsy  | 70 | > 1 |
| 295 | Melanoma                 | Biopsy  | 20 | > 1 |
| 295 | Melanoma                 | Biopsy  | 0  | ≤ 1 |
| 295 | Lung cancer              | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Surgery | 0  | ≤ 1 |
| 295 | Gastric cancer           | Surgery | 0  | ≤ 1 |
| 295 | Lung cancer              | Biopsy  | 30 | > 1 |
| 295 | Gastric cancer           | Biopsy  | 40 | > 1 |
| 295 | Ovarian cancer           | Surgery | 10 | > 1 |
| 295 | Melanoma                 | Surgery | 25 | > 1 |
| 295 | Melanoma                 | Biopsy  | 20 | > 1 |
| 295 | Colorectal cancer        | Surgery | 0  | ≤ 1 |
| 295 | Liver cancer             | Surgery | 0  | ≤ 1 |
| 295 | Lung cancer              | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Surgery | 0  | ≤ 1 |
| 295 | Lung cancer              | Surgery | 0  | ≤ 1 |
| 295 | Lung cancer              | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Surgery | 30 | > 1 |
| 295 | Lung cancer              | Biopsy  | 30 | > 1 |
| 295 | Pancreatic carcinoma     | Biopsy  | 20 | > 1 |

|     |                          |         |    |     |
|-----|--------------------------|---------|----|-----|
| 295 | Liver cancer             | Surgery | 30 | > 1 |
| 295 | Colorectal cancer        | Biopsy  | 0  | ≤ 1 |
| 295 | Melanoma                 | Biopsy  | 0  | ≤ 1 |
| 295 | Liver cancer             | Surgery | 40 | > 1 |
| 295 | Melanoma                 | Surgery | 0  | ≤ 1 |
| 295 | Colorectal cancer        | Surgery | 30 | > 1 |
| 295 | Colorectal cancer        | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Biopsy  | 50 | > 1 |
| 295 | Colorectal cancer        | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Biopsy  | 20 | > 1 |
| 295 | Gastric cancer           | Biopsy  | 30 | > 1 |
| 295 | Carcinoma of other sites | Surgery | 5  | > 1 |
| 295 | Melanoma                 | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Biopsy  | 0  | ≤ 1 |
| 295 | Pancreatic carcinoma     | Biopsy  | 5  | > 1 |
| 295 | Carcinoma of other sites | Biopsy  | 80 | > 1 |
| 295 | Sarcoma                  | Surgery | 20 | > 1 |
| 295 | Colorectal cancer        | Surgery | 0  | ≤ 1 |
| 295 | Carcinoma of other sites | Biopsy  | 20 | > 1 |
| 295 | Lung cancer              | Surgery | 50 | > 1 |
| 295 | Carcinoma of other sites | Surgery | 1  | ≤ 1 |
| 295 | Carcinoma of other sites | Surgery | 0  | ≤ 1 |
| 295 | Melanoma                 | Surgery | 0  | ≤ 1 |
| 295 | Gastric cancer           | Biopsy  | 30 | > 1 |
| 295 | Lung cancer              | Surgery | 50 | > 1 |
| 295 | Colorectal cancer        | Surgery | 0  | ≤ 1 |
| 295 | Colorectal cancer        | Surgery | 0  | ≤ 1 |
| 295 | Lung cancer              | Biopsy  | 1  | ≤ 1 |
| 295 | Lung cancer              | Biopsy  | 49 | > 1 |
| 295 | Sarcoma                  | Surgery | 0  | ≤ 1 |
| 295 | Lung cancer              | Biopsy  | 50 | > 1 |
| 295 | Carcinoma of other sites | Surgery | 90 | > 1 |

|      |                      |         |    |     |
|------|----------------------|---------|----|-----|
| 295  | Lung cancer          | Biopsy  | 50 | > 1 |
| 295  | Gastric cancer       | Surgery | 0  | ≤ 1 |
| 295  | Lung cancer          | Biopsy  | 40 | > 1 |
| 295  | Colorectal cancer    | Surgery | 0  | ≤ 1 |
| 295  | Colorectal cancer    | Surgery | 0  | ≤ 1 |
| 295  | Liver cancer         | Surgery | 5  | > 1 |
| 295  | Melanoma             | Surgery | 0  | ≤ 1 |
| 295  | Melanoma             | Biopsy  | 0  | ≤ 1 |
| 295  | Melanoma             | Biopsy  | 0  | ≤ 1 |
| 295  | Gastric cancer       | Surgery | 20 | > 1 |
| 295  | Lung cancer          | Biopsy  | 0  | ≤ 1 |
| 295  | Liver cancer         | Surgery | 0  | ≤ 1 |
| 295  | Lung cancer          | Surgery | 10 | > 1 |
| 295  | Lung cancer          | Biopsy  | 5  | > 1 |
| 295  | Liver cancer         | Surgery | 5  | > 1 |
| 295  | Gastric cancer       | Surgery | 0  | ≤ 1 |
| 1021 | Colorectal cancer    | Surgery | 20 | > 1 |
| 1021 | Lung cancer          | Biopsy  | 0  | ≤ 1 |
| 1021 | Lung cancer          | Biopsy  | 2  | > 1 |
| 1021 | Lung cancer          | Biopsy  | 50 | > 1 |
| 1021 | Pancreatic carcinoma | Biopsy  | 0  | ≤ 1 |
| 1021 | Colorectal cancer    | Biopsy  | 25 | > 1 |

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PD-L1, programmed death-ligand 1.