

**S2 Table.** Method for **PD-L1 22C3** immunohistochemistry (IHC) stain

UCLA Anatomic Pathology / Immunohistochemistry Laboratory

1. Using PD-L1 IHC 22c3 pharmDx kit (DAKO #SK006)
2. Perform IHC in Agilent-Dako Autostainer Link:
  - a. Baked slides were deparaffinized,
  - b. Antigen retrieved in the autostainer Pre-treatment module,
  - c. Slides Washed in Envision FLEX wash buffer,
  - d. Slides were then immunostained with sequential incubations of hydrogen peroxide block for 5 minutes,
  - e. Incubation with primary antibody for 30 minutes,
  - f. Incubation with secondary antibody for 30 minutes,
  - g. Incubation with polymer for 30 minutes,
  - h. DAB (diaminobenzidine) for 5 minutes,
  - i. DAB enhancer for 5 minutes,
  - j. Hematoxylin for 5 minutes.
  - k. Appropriate buffer washes were performed between reagents.
3. Slides were dehydrated and then cover slipped.