

## Programmed Death Ligand 1 (PD-L1) **Immunohistochemistry**

Clinician Name: Dr Chandra Gouda Medical Facility: BLK Cancer Center Pathologist: Not Provided

### **Programmed Death Ligand 1 (PD-L1): Negative**

#### **Microscopy Evaluation** HE Staining (Figure 1)

Tumor cells: 65% Immune cells: 15%

Tumor cells positive for PD-L1: 00% (No immunostaining) Immune cells positive for PD-L1: <01%

(Moderate)

### **Test Description**

This test is useful for identification of neoplasms expressing programmed cell death 1-ligand 1 (clone SP263). PD-L1 also known as B7 homolog 1 (B7-H1) or CD274, is a transmembrane protein involved in the regulation of cell-mediated immune responses through interaction with the receptor programmed death protein-1 (PD-1). PD-L1 has been identified as both a prognostic and theranostic marker in a variety of neoplasms. Overexpression of PD-L1 has been observed in carcinomas of the urinary bladder, lung, thymus, colon, pancreas, ovary, breast, kidney, and in melanoma and glioblastoma.

#### **Specimen**

Sample Type: FFPE block S-5334/17 3C

Site: Omentum

Pathology ID: MOLQ/IHC-32072019 Disease: Metastatic Ovary Carcinoma

#### Interpretation

The scoring system is based on type and origin of tumor. If additional interpretation or analysis is needed, send request for Pathology Consultation.

### Methodology

Immunostaining for PD-L1 protein was done using Ventana Rabbit Anti-Human PD-L1/CD274 Monoclonal Antibody (Clone SP-263) on Ventana Autostainer.

Positive PD-L1 staining/expression is defined as complete and/or partial, circumferential or linear plasma membrane or cytoplasmic staining at any intensity that can be differentiated from background.

Preclinical studies suggest that positive programmed cell death 1ligand 1 (PD-L1) immunohistochemistry in tumor cells may predict tumor response to therapy with immune checkpoint inhibitors. This result should not be used as the sole factor in determining treatment, as other factors (eg, tumor mutation burden and microsatellite instability) have also been studied as predictive markers.

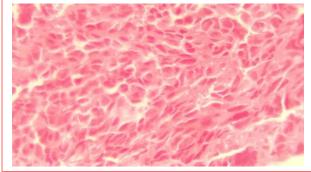
#### References

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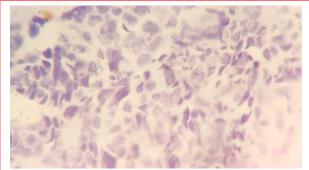
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**HE Stained Section** 



PD-L1 IHC- Tumor Cells

Figure 1



PD-L1 IHC- Immune Cells

Figure 2

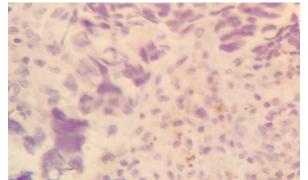


Figure 3