

<b>Patient Name</b>	Mrs. KHALIKOVA YULIYA	<b>Client Name</b>	Home Collection	<b>Specimen Received</b>	04-March-2019
<b>Age/Sex</b>	32/F			<b>Specimen Type</b>	Wax Block
<b>Patient ID</b>	011903040311	<b>Client Code</b>		<b>Collection Date</b>	04-March-2019
<b>Specimen ID</b>	MOLQ/IHC-10032019	<b>Ref. Doctor</b>	Dr. Chandra Gouda	<b>Report Date</b>	12-March-2019

## SURGICAL PATHOLOGY REPORT

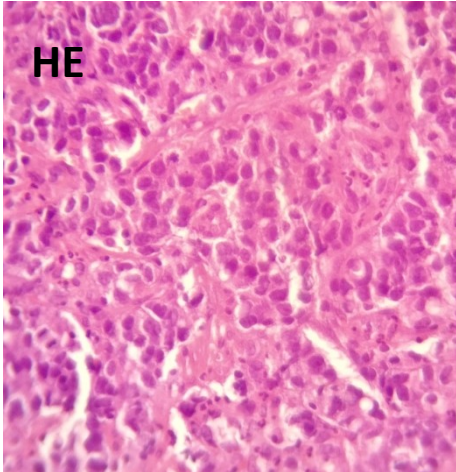
### Carcinoma Stomach

#### RESULTS

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

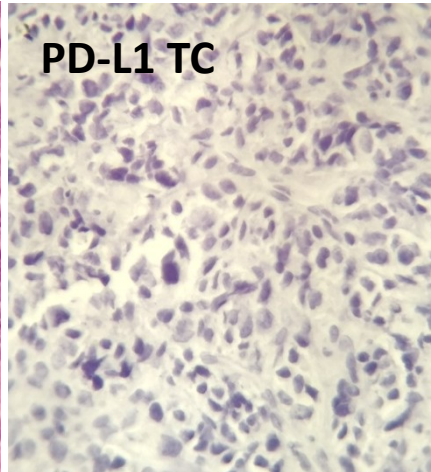
**Tumor Cells (TC) : Negative**

**Tumor Infiltrating Lymphocytes (TILs) : Negative**



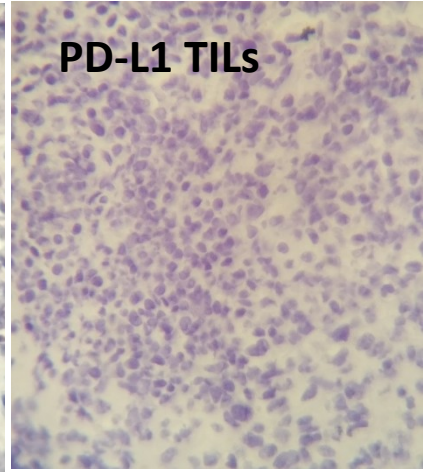
**HE**

**Fig. 1**



**PD-L1 TC**

**Fig. 2**



**PD-L1 TILs**

**Fig. 3**

\*TC- Tumor Cells, TILs- Tumor Infiltrating Lymphocytes

#### **SPECIMEN**

Carcinoma Stomach

Received one paraffin block labelled as S-7706/18 A.

#### **Immunohistochemical Staining**

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 staining at any intensity that can be differentiated from background and diffuse cytoplasmic staining.

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### Microscopic Findings:

#### Programmed Death Ligand 1 (PD-L1) Immunostaining in Tumor Cells (TC) (Fig.2)

##### **Membrane Staining**

Cells immunoreactive – Score 0

Intensity- Score 0

##### **Cytoplasm Staining**

Cells immunoreactive – Score 0

Intensity- Score 0

**Total Score: 00**

#### Programmed Death Ligand 1 (PD-L1) Immunostaining in Tumor Infiltrating Lymphocytes (TILs) (Fig. 3)

##### **Membrane Staining**

Cells immunoreactive – 00%

Intensity- 0

##### **Cytoplasm Staining**

Cells immunoreactive – 00%

Intensity- 0



**Gulshan Yadav, MD**  
Head & Senior Consultant  
Pathologist



**Tina Bhardwaj, MDS**  
Consultant Pathologist

### Inference:

#### Immunoreactive Scoring System (IRS) Tumor Cells

##### A) Percentage of Stained Cells:

Score 0: <1% Positive Cells

Score 1: 1%-50% Positive Cells

Score 2: >50% Positive Cells

##### B) Staining Intensity:

Score 0: No immunostaining

Score 1: Weak staining

Score 2: Moderate staining

Score 3: Strong staining

**IRS=A+B**

**Range: 0-5**

##### Interpretation:

A total score of <2 – Negative

A total score of ≥2 – Positive

Programmed Cell Death Ligand 1 (PD-L1) is a protein encoded by the CD274 gene. It is crucial in maintaining immune homeostasis. PD-L1 works by attaching to the T-Cell receptors called PD1 and B7.1 (both inactive T cells). PD-L1 is an important prognostic and theranostic biomarker in the study of several neoplasma. PD-L1 overexpression may facilitate tumor growth and metastasis, and has been observed in carcinomas of Lungs, Thymus, Bladder, Colon, Pancreas, Ovary, Kidney, Breast, Melanoma and Glioblastoma.

#### **Reference**

1. Rosai and Ackerman's Surgical Pathology.
2. Modern Surgical Pathology.
3. PD-L1 and gastric cancer prognosis: A systematic review and meta-analysis Lihu Gu, Manman Chen, Dongyu Guo, Hegan Zhu, Wenchao Zhang PLOS ONE August 2017;12:8 14 Pages
4. Immunotherapy in Advanced Gastric Cancer: An Overview of the Emerging Strategies Helena Magalhães, Mário Fontes-Sousa , and Manuela Machado Canadian Journal of Gastroenterology and Hepatology 2018 8 Pages
5. Programmed death-1 and PD-1 ligand-1 expression in early onset gastric carcinoma and correlation with clinicopathological characteristics Ping Wei, Mulan Jin, Xiang Zhou, Xiumei Hu, Ying Wang Int J Clin Exp Pathol 2018;11:4 10 Pages