

Immunohistochemical Analysis

Immunohistochemical analysis for markers CD21, CD35, D2-40 and CD23.

Clinician

Clinician Name: Dr Amit Verma
Medical Facility: Dr AV Institute of Personalized Cancer Therapy and Research
Pathologist: Not Provided

Patient Demographic

Name: Mr. Dharam Prakash
Sex: Male
Date of Birth/Age: 80 years
Booking ID: 012311230173

Specimen

Material: Core biopsy from retroperitoneal tumor
Sample Type: 2 Paraffin Blocks WJ/5019-A & B
Date of Collection: 23-11-2023
Date of Booking: 23-11-2023

INFORMATION PROVIDED

Overall histomorphology and Immunohistochemistry profile (as depicted in table below) is suggestive of malignant mesenchymal neoplasm- SARCOMA.

Immunohistochemistry performed on block no. WJ15019-B

Markers	Reactivity	Markers	Reactivity
Vimentin	Positive	DOG1	Negative
panCK	Negative	P16	Negative
EMA	Negative	CDK4	Positive
LCA	Negative	H-Caldesmon	Negative
CD23	Negative	SOX10	Negative
S100	Negative	ERG1	Negative
HMB45	Negative	TLE1	Heterogenous weak to moderate nuclear staining
SMA	Negative	CDX2	Negative
Desmin	Negative	P63	Negative
CD34	Negative	GATA3	Negative
CD117	Negative	Ki67	30-35%

RESULT SUMMARY

Immunohistochemical Findings:

Additional Immunohistochemical stains done on block WJ/5019-A shows following reactions:

Markers	Reactivity	Markers	Reactivity
CD21	Positive	D2-40	Positive
CD35	Positive	CD23	Negative

Microscopic Appearance:

The needle core biopsy reveals a spindle cell neoplasm arranged in short intersecting fascicles and whorls. The lesional cells have plump ovoid nuclei with sharply outlined nuclear membranes, fine chromatin, prominent nucleoli and abundant eosinophilic cytoplasm. A liberal sprinkling of lymphocytes accompanies the spindle cells.

Immunohistochemistry was carried out on paraffin block no. WJ/5019-A. The lesional cells express CD21, CD35 and D2-40 and are immune-negative for CD23 protein.

IMPRESSION

Follicular Dendritic Cell Sarcoma

Reviewed By



Dr. Gulshan Yadav, MD
Head, Pathology