

Pt. Name:	نور محمد محمد الفرح			Lab Number:	4107-2026
Pt. Age:	55 years.	Gender:	Female	Received date:	2026-06-16
Referred By:	د/ محمد درهم القدسي			Reported date:	2026-06-23

PATHOLOGY REPORT

Clinical Information.	Referred paraffin block for immunostaining of endoscopic biopsy from rectal mass.
Nature of specimen.	Immunohistochemistry

GROSS:

One referred paraffin block.

MICROSCOPIC:

Sections of partially ulcerated rectal mucosa show a high-grade malignant epithelial tumor composed of irregular glandular structures embedded within abundant extracellular mucin. The tumor exhibits foci of signet-ring differentiation.

Immunotherapy was done with appropriate positive and negative controls and revealed:

- MLH1, PMS2, MSH2, and MSH6 demonstrates preserved nuclear expression in tumor cells for all four mismatch repair proteins.

DIAGNOSIS:

Immunostaining of endoscopic biopsy from rectal mass:

- Mucinous Adenocarcinoma, high grade.
- Intact mismatch repair protein expression (MMR proficient/MSI stable phenotype).

Comment:

The retained expression of MLH1, PMS2, MSH2, and MSH6 supports proficient DNA mismatch repair status and argues against microsatellite instability-high phenotype.

Pathologist

Prof. Dr. Neveen Tahoun, MD, PhD
23-06-2026

Nerveen Tahoun