MAYO CLINIC LABORATORIES

NEW TEST

Notification Date: October 20, 2026
Effective Date: November 5, 2026

PTEN (SP218), Semi-Quantitative Immunohistochemistry, Manual

Test ID: PTENC

Useful for:
Aiding in detecting PTEN-deficient invasive prostate adenocarcinoma.

Methods:
Immunohistochemistry (IHC)

Specimen Requirements:

Supplies:	Pathology Packaging Kit (T554)
Specimen Type:	Tissue
Collection Instructions:	Formalin-fixed, paraffin-embedded tissue block; or 3 unstained glass, positively-charged slides with 4-microns formalin-fixed, paraffin-embedded tissue.
Additional Information:	One slide will be stained with hematoxylin and eosin and returned.

Specimen Stability Information:

Specimen Type	Temperature	Time
Special	Ambient (preferred)	
	Refrigerated	

Cautions:
This test has been validated for non-decalcified paraffin-embedded tissue specimens fixed in 10% neutral buffered formalin at Mayo Clinic in Rochester, Minnesota. Specimens are recommended to be placed in formalin within 1 hour of acquisition and fixed between 6 hours and 72 hours. This assay has not been validated on tissue or cellblocks subjected to alternative fixatives or decalcification.

Age of a cut paraffin section can affect immunoreactivity. Stability thresholds vary widely among published literature and are antigen dependent. Best practice is for paraffin sections to be cut within 6 weeks.

The charge of glass slides can be affected by environmental factors and subsequently may alter slide staining. Sending unsuitable glass slides can result in inconsistent staining due to poor slide surface chemistry.

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Best practices for storage of positively charged slides:
-Minimize time slides are stored after being unpackaged
-Limit exposure to high humidity and heat
-Minimize exposure to plastics

Broken or cracked unstained slides are not compatible with the instrumentation used in our performing laboratories and will be rejected. Additional material may be requested.

CPT Code:
88360

Day(s) Performed: Monday through Friday **Report Available:** 5 to 7 days

Questions
Contact Richard Einerson/Sarah Turner, Laboratory Technologist Resource Coordinator at 800-533-1710.

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