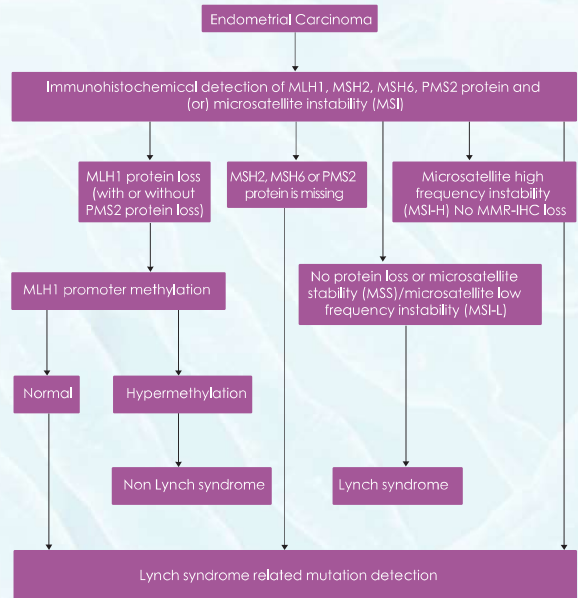
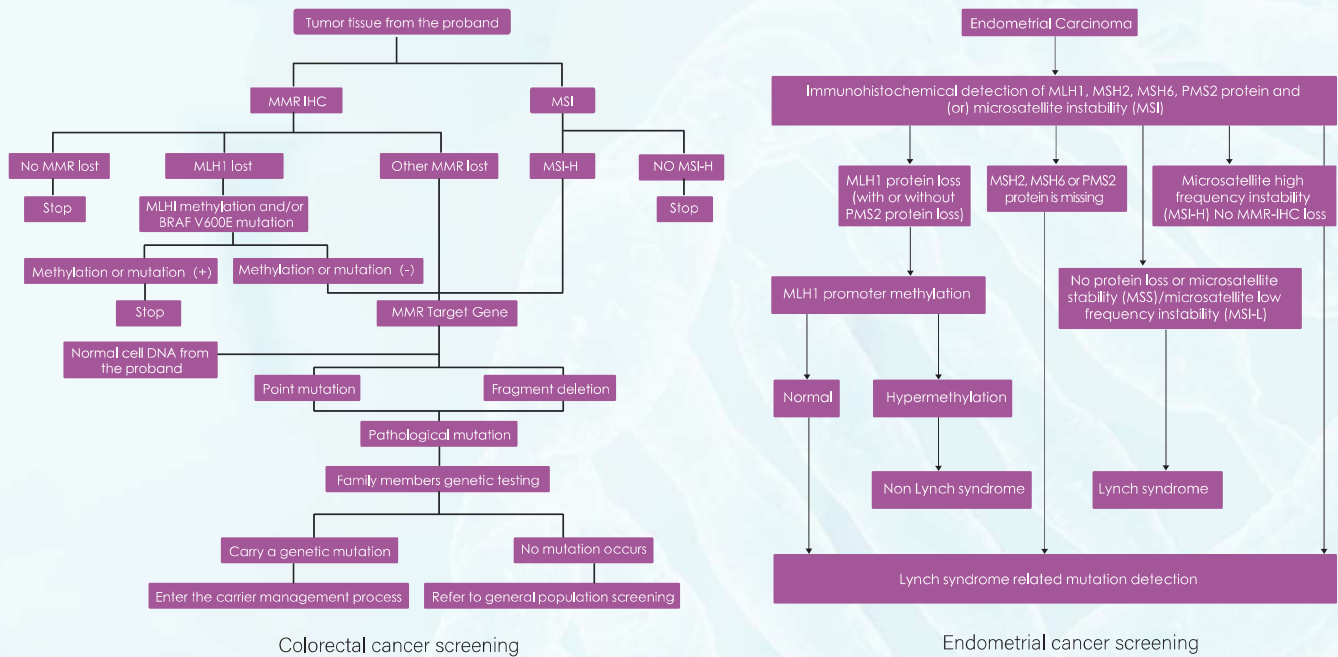


MLH1 Gene Methylation Detection Kit (Real-Time PCR assay)

GENE MUTATION AND TUMOR

The protein encoded by the MLH1 gene is involved in DNA mismatch repair. The methylation of the MLH1 promoter is commonly found in sporadic microsatellite instability tumors including colorectal cancer and endometrial carcinoma, which is related to the loss of MLH1 protein expression. Methylation of the MLH1 gene promoter is rarely found in Lynch syndrome. Therefore, MLH1 gene methylation analysis can be used to distinguish sporadic and hereditary colorectal cancer and endometrial carcinoma in highly unstable microsatellite tumors. In endometrial carcinoma, MLH1 gene methylation is highly aggressive and need to be treated positively.



DETECTION GENE

MLH1 gene methylation

PRODUCT INFORMATION

Product Name	Core Technology	Pack Size	Instruments Validated	Sample Type
MLH1 Gene Methylation Detection kit	PAP-ARMS®	24 Tests/Kit	Stratagene Mx3000P™ ABI7500etc	Tumor Tissue



DETECTION SIGNIFICANCE

- » Presence of MLH1 hypermethylation is consistent with sporadic cancer.
- » In endometrial carcinoma with dMMR, MLH1 hypermethylation were a subgroup with a poorer prognosis than suspected-LS.
- » In endometrial carcinoma patients with MLH1 methylated versus Lynch-like, pembrolizumab show poorer ORR, and shorter OS and PFS.



APPLICABLE PEOPLE

- » Patients with colorectal cancer and endometrial carcinoma.



DETECTION RESULTS

Detection Item	Detection Results	Result Analysis
MLH1 Gene Methylation Detection kit	Positive	The positive methylation of the MLH1 gene promoter region indicates that the loss of MLH1 gene expression is due to epigenetic modification rather than genetic mutation, which suggest a lower possibility of Lynch syndrome. It is recommended to combine clinical information and family history for comprehensive analysis.



FEATURES & ADVANTAGES

High Sensitivity: Sensitivity can detect as low as 1% gene methylation status.

Ease of Use: Based on technology PAP-ARMS®, one step detection in 90 mins.

Great versatility: Validated on the most common qPCR machines with stable results.

DETECTION PROCESS



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