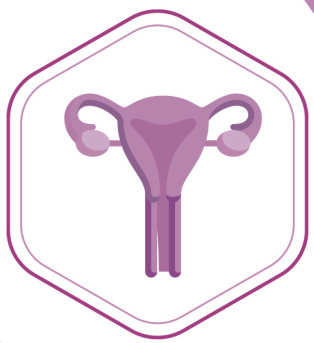

EPIPROBE

TAGMe DNA Methylation Detection Kits (qPCR) for Endometrial Cancer

PCT No.: PCT/CN2019/0967937

PRODUCT FEATURES

· Precision ·

Validated over 800 clinical samples in double-blind multi-center studies, the product has a specificity of 82.81% and a sensitivity of 80.65%.

· Convenient ·

The original Me-qPCR methylation detection technology can be completed in one step within 3 hours without bisulfite transformation.

· Early ·

Detectable at the precancerous stage.

· Non-invasive ·

Applicable with cervical brush and Pap smear samples.

INTENDED USE

This product is used for in vitro qualitative detection of hypermethylation of the gene *PCDHGB7* incervical specimens.

A positive result indicates an increased risk of endometrial precancerous lesions and cancer, which requires further histopathological examination of endometrium. Final diagnosis should be based on histopathological examination results of endometrium.

PCDHGB7 is a member of protocadherin family γ gene cluster. Protocadherin has been found to regulate biological processes such as cell proliferation, cell cycle, apoptosis, invasion, migration and autophagy of tumor cells through various signaling pathways, and its gene silencing caused by hypermethylation of the promoter region is closely related to the occurrence and development of many cancers. It has been reported that hypermethylation of *PCDHGB7* is associated with a variety of tumors, such as non-Hodgkin lymphoma, breast cancer, cervical cancer, endometrial cancer and bladder cancer.

DETECTION PRINCIPLE

This kit contains nucleic acid extraction reagent and PCR detection reagent. Nucleic acid is extracted by magnetic-bead-based method. This kit is based on the principle of fluorescence quantitative PCR method, using methylation-specific real-time PCR reaction to analyze template DNA, and simultaneously detect the CpG sites of *PCDHGB7* gene and the quality control marker internal reference gene fragments G1 and G2. The methylation level of *PCDHGB7* in the sample, or the Me value, is calculated according to the *PCDHGB7* gene methylated DNA amplification Ct value and the Ct value of the reference. The *PCDHGB7* gene hypermethylation positive or negative status is determined according to the Me value.

EPIPROBE

APPLICATION SCENARIOS

Early Screening

Healthy people

Cancer Risk Assessment

High-risk groups (people with abnormal vaginal bleeding after menopause, endometrial thickening, etc.)

Recurrence Monitoring

Prognostic population

CLINICAL SIGNIFICANCE

Early screening for healthy population: Endometrial cancer and precancerous lesions can be accurately screened out;

Risk assessment for high-risk population: Risk assessment can be carried out for people with abnormal vaginal bleeding and endometrial thickening after menopause to assist in clinical diagnosis;

Prognostic population recurrence monitoring: Postoperative population recurrence monitoring can be performed to prevent delays in treatment caused by recurrence.

SAMPLE COLLECTION

Sampling method: Place the disposable cervical sampler at the cervical os , gently rub the cervical brush and rotate 4-5 times clockwise, slowly remove the cervical brush, put it into cell preservation solution, and label it for the following examination.

Preservation of samples: Samples can be stored at room temperature for up to 14 days, at 2-8 ℃ for up to 2 months, and at -20±5℃ for up to 24 months.

DETECTION PROCESS: 3 HOURS (WITHOUT MANUAL PROCESS)

Sample Collection » DNA Extraction (1h) » qPCR Detection (2h) » Result Analysis

TAGMe DNA METHYLATION DETECTION KITS (qPCR) FOR ENDOMETRIAL CANCER

Clinical application	Clinical auxiliary diagnosis of endometrial carcinoma
Detection gene	*PCDHGB7*
Sample type	Female cervical specimens
Test method	Fluorescence quantitative PCR technology
Applicable models	ABI7500
Packing specication	48Tests/kit
Storage Conditions	Kit A should be stored at 2-30℃, kit B should be stored at -20±5℃, valid for up to 12 months.

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