

TERC Red and Chromosome 3 Centromere Green DNA FISH Probe

70-0009ASR

0.1 mL, Ready-To-Use

Intended Use

Analyte Specific Reagent.
Analytical and performance characteristics are not established.

Description

The probe is a double-stranded DNA probe cocktail containing TERC probe, 332 kb in size, labeled with red fluorescence dye (excitation 589 nm and emission 615 nm, similar to Texas Red), and chromosome 3 centromere probe labeled with green fluorescence dye (excitation 496 nm and emission 520 nm similar to FITC). The probe cocktail detects human TERC gene at chromosome 3q26 region and chromosome 3 alpha-satellites DNA D3Z1 in standard cytogenetic preparation, cytology preparation, or formalin-fixed paraffin embedded (FFPE) tissue section by fluorescence *in situ* hybridization (FISH) methodology.

The probe has been demonstrated to bind specifically to the chromosome 3 region 3q26 (Red) and centromere of chromosome 3 (Green) by metaphase FISH in normal lymphocytes. This probe can detect multiple copies in human cancer cell lines which are known to have gain of chromosome 3.

TERC (Telomerase RNA component) is an RNA gene found in eukaryotes. TERC is a component of telomerase used to extend telomeres. Gain of TERC gene region 3q26 has been observed in low grade lesions to high grade lesion of cervical carcinoma, accordingly published papers.

Reagent provided

This probe is supplied as liquid in hybridization buffer in ready-to-use format.

Precautions

For professional users.

MSDS sheet may be obtained by either visiting www.genemed.com or obtained by contacting Genemed Technical Support.

Usage

Each lot is tested by FISH in cytogenetic metaphase/interphase preparation of normal lymphocyte and cultured cervical carcinoma cells in chamber slides. In these tests, the cervical carcinoma cells were fixed with ThinPrep PresevCyte Solution (Hologic Cat. No. 0200011), the probe and specimen are co-denatured at 80°C for 5 minutes and hybridized at 37°C overnight. After 0.5X SSC stringent wash at 72°C for 5 minutes (from Genemed 10-0029 20XSSC), the probe FISH signal in nucleus can be observed under fluorescent microscope equipment with DAPI, FITC, and Texas Red Filter sets.

Storage

Store at 2-8°C.

References

1. Yin G, et al. World Journal of Surgical Oncology. 10:168, 2012.
2. Pelosi G, et al. Clinical Cancer Research. 13:1995-2004, 2007.
3. Andersson S, et al. British J of Cancer. 95:331-338, 2006.

Symbols



Catalog No.



Batch No.



Use By



Temperature Range

31441 Rev.01

