

TERT/PAX5/SMAD6 FISH Probe Kit

Introduction

The TERT/PAX5/SMAD6 FISH Probe Kit is designed to detect the human *TERT* gene located on chromosome band 5p15.33, the *PAX5* gene on chromosome band 9p13.2, and the *SMAD6* gene on chromosome band 15q22.31. Abnormal expression of the *TERT* gene – also known as *TP2*, *TRT*, *CMM9*, *EST2*, *TCS1*, *hTERT*, *DKCA2*, *DKCB4*, *hEST2* or *PFBMFT1* – have been reported in a variety of tumor types. Rearrangements and abnormal expression of the *PAX5* gene – also known as *ALLL3*, *BSAP*, or *PAX-5* – have been observed in acute lymphoblastic leukemia (ALL) and in other lymphoproliferative disorders. Abnormalities in *SMAD6* – also known as *MADH7*, *MADH6*, *HsT17432*, or *AOVD2* – are associated with cardiac valve defects, developmental deficiencies, lung neoplasms and other malignancies.

Intended Use

To measure the copy number of the human *TERT*, *PAX5* and *SMAD6* genes located on chromosome bands 5p15.33, 9p13.2 and 15q22.31, respectively.

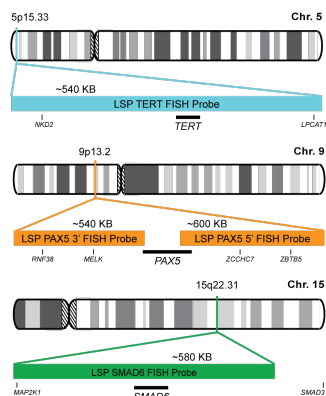
Cont.

Color

LSP TERT FISH Probe
LSP PAX5 5'-3' FISH Probe
LSP SMAD6 FISH Probe

CytoAqua
CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP TERT FISH Probe covers a chromosomal region which includes the entire *TERT* gene. LSP PAX5 5'-3' FISH Probe covers chromosomal regions which include the 5' and 3' ends of the *PAX5* gene and the sequences adjacent to the two ends of the gene. LSP SMAD6 FISH Probe covers a chromosomal region which includes the entire *SMAD6* gene.

Cat. No.

Volume

CT-PAC455-10-AOG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

20:20:20

Abnormal Patterns

Other Patterns

- 1) Blackburn EH. *Nature*. 350(6319):569-73 (1991).
- 2) Iida S, et al. *Blood* 88(11):4110-7 (1996).
- 3) Strehl S, et al. *Leukemia* 17(6):1121-3 (2003).
- 4) Jeon HS, et al. *Cancer Res.* 68(23):9686-92 (2008).
- 5) Fedeles SV, et al. *J Clin Invest.* doi: 10.1172/JCI78863 (2015).

* CE IVD only available in certain countries. All other countries are either ASR or RUO. Please contact your local dealer or our headquarters for more information.

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