

TRA Break Apart FISH Probe Kit

Introduction

The TRA Break Apart FISH Probe Kit is designed to detect rearrangements in the human T cell receptor alpha (*TRA*) locus located on chromosome band 14q11.2. In addition to revealing breaks, which can lead to translocation of parts of the locus, inversion, or its fusion to other genes, the probe set can also be used to identify other *TRA* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *TRA* locus – also known as *IMD7*, *TCRA*, *TCRD*, *TRA@* or *TRAC* – have been observed in a number of adult and pediatric T-cell leukemias and other malignancies.

Intended Use

To detect rearrangements in the human *TRA* locus located on chromosome band 14q11.2.

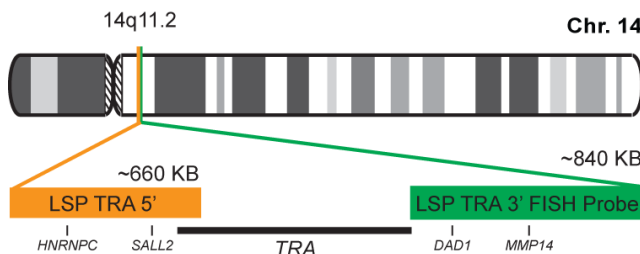
Cont.

LSP TRA 5' FISH Probe
LSP TRA 3' FISH Probe

Color

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP TRA 5' FISH Probe covers the 5' (start) portion of the *TRA* locus and some adjacent genomic sequences. LSP TRA 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the locus. The two probes are flanking sequences across the *TRA* locus in which various breakpoints have been observed.

Cat. No.

CT-PAC107-10-OG

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Pattern

2OG*

Abnormal Pattern

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) O'Connor C. *Nature Education*. 1(1):171 (2008).
- 2) Onozawa M & Aplan PD. *Genes Chromosomes Cancer*. 51(6):525-35 (2012).
- 3) Berger R, et al. *Cancer Genet Cytogenet*. 130(1):84-6 (2001).
- 4) Gesk S, et al. *Leukemia*. 17(4):738-45 (2003).
- 5) Leich E, et al. *J Pathol*. 213(1):99-105 (2007).

* 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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