

IRF4/DUSP22 Break Apart FISH Probe Kit

Introduction

The IRF4/DUSP22 Break Apart FISH Probe Kit is designed to detect rearrangements in the human IRF4 and DUSP22 genes and the surrounding regions located on chromosome band 6p25.3. In addition to revealing breaks, which can lead to translocation of parts of the genes, inversion, or their fusion to other genes, the probe set can also be used to identify other IRF4 and DUSP22 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the IRF4 gene – also known as NF-EM5, MUM1, LSIRF or IRF-4 – and the DUSP22 gene – also called JKAP, JSP-1, JSP1, LMW-DSP2, LMWDSP2, MKP-x, MKPX or VHX – have been observed in multiple myeloma (MM) and other lymphoid malignancies, viral malignancies, skin cancer and lymphomatoid papulosis (LyP), a chronic papulonecrotic or papulonodular skin disease with histologic features suggestive of a malignant lymphoma.

Intended Use

To detect rearrangements in the human *IRF4* and *DUSP22* genes located on chromosome band 6p25.3.

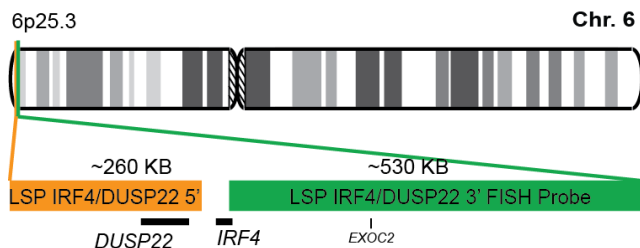
Cont.

Color

LSP IRF4/DUSP22 5' FISH Probe
LSP IRF4/DUSP22 3' FISH Probe

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP IRF4/DUSP22 5' FISH Probe covers the entire *DUSP22* gene, genomic sequences adjacent to the 5' (start) and the 3' (end) portions of the gene, and genomic sequences upstream of the *IRF4* gene's 5' (start) end. LSP IRF4/DUSP22 3' FISH Probe covers some sequences downstream of the 3' end of the *IRF4* gene. The two probes are flanking sequences across the *IRF4* and *DUSP22* genes in which various breakpoints have been observed.

Cat. No.

Volume

CT-PAC181-10-OG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Karai LJ, et al. *Am J Surg Pathol*. 37(8):1173-81 (2013).
2) Feldman AL, et al. *Blood*. 117(3):915-9 (2011).
3) Wada DA, et al. *Mod Pathol*. 24(4):596-605 (2011).
4) Cardoso J, et al. *Am J Dermatopathol*. 34(7):762-5 (2012).
5) Drews R, et al. *Semin Cutan Med Surg*. 19(2):109-17 (2000).

* 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.