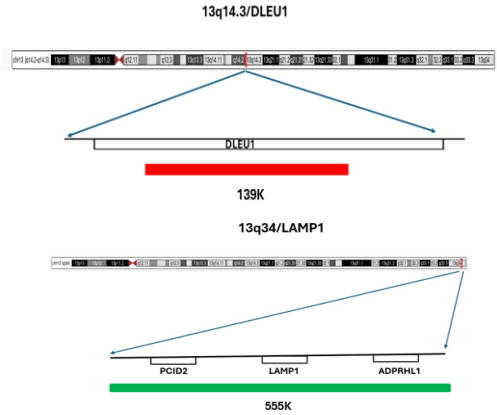
BRIGHTDOM FISH Probes: 13q14.3 (DLEU1) and 13q34 (LAMP1)



Gene: 13q14.3/DLEU1
Labeled region (Orange): hg38:chr13:50,023,989-50,163,252
Target size: 139K
Gene: LAMP1 (13q34); Centromere 5'-3' Telomere
Labeled region (Green): hg38:chr13:113,013,078-113,568,117
Target size: 555K

Introduction: The 13q14.3/DLEU1 FISH probe is optimized to detect the deletion of 13q14.3 in chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL). The 13q34 (LAPM1) serves as a control.

13q14.3 (DLEU1) (Orange): The 13q14.3/DLEU1 region is labeled with an orange dye.

13q34 (LAMP1) (Green): The LAMP1 gene (13q34) locus is labeled with a green dye.

Signal Patterns: The 13q14.3 (DLEU1) FISH probe is designed to detect the loss of 13q14.3 in while 13q34 (LAMP1) serves as a control. The deletion of 13q14.3 can be heterozygous (one red signal) and/or homozygous (no re signals). Loss of both 13q14.3 and 13q34 (LAMP1) indicates a monosomy 13. The deletion can be cryptic and detected by FISH analysis but not visible by conventional chromosome analysis.