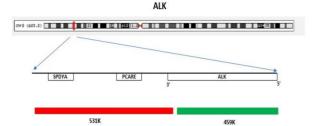
## BRIGHTDOM FISH Probes: ALK (2p23) Break-apart



Gene: ALK (2p23); Telomere 3'-5' Centromere

5' region (Green): hg38:chr2:29,225,580-29,684,928

Target size: 459K

3' region (Orange):hg38:chr2:28,692,863-29,223,358

Target size: 531K

Functionally critical region: 3' ALK, labeled orange.

**Introduction:** The ALK (2p23) break-apart FISH probes are optimized to detect translocations involving the ALK gene region at 2p23.

5' ALK region (Green): The 5' region of ALK (2p23) gene locus is labeled with a green dye.

3' ALK region (Orange): The 3' region of ALK (2p23) gene locus is labeled with an orange dye.

Functionally critical region (Orange): The 3'ALK gene is labeled with an orange dye.

**Signal Patterns:** The ALK (2p23) break-apart FISH probes are designed as dual-color break-apart probes to detect translocations at 2p23. A specimen considered positive for ALK rearrangement shows a separation of orange and green signals, or an orange signal (deletion of the green signal).