Multiplexing with KromaTiD Pinpoint FISH™ DNA Probes

In this application note we describe how to multiplex KromaTiD's Pinpoint FISH Probes. We show that up to four KromaTiD PPF Probes can be combined as well as demonstrate the interoperability of our PPF probes with BAC Probes.

For all multiplexing experiments, we combined the probes of interest before dehydrating them completely in a speedvac (*WITHOUT HEAT). The dried probes then get rehydrated with nuclease-free water for a final volume 12µL. KromaTiD's Pinpoint FISH Protocol can then be followed as written.

Figure 1 shows four of KromaTiD's PPF Probes combined in a single metaphase cell with high specificity and signal strength. Figure 2 shows two examples of successful multiplexing of PPF Probes with BAC Probes.

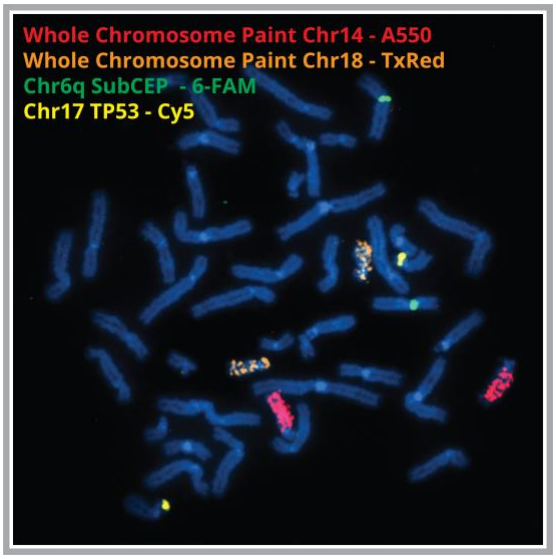

Figure 1. PPF Probes: Chr14 Paint-A550, Chr18 paint-TxRed, Chr6q SubCEP-6FAM and Chr17 TP53-Cy5.

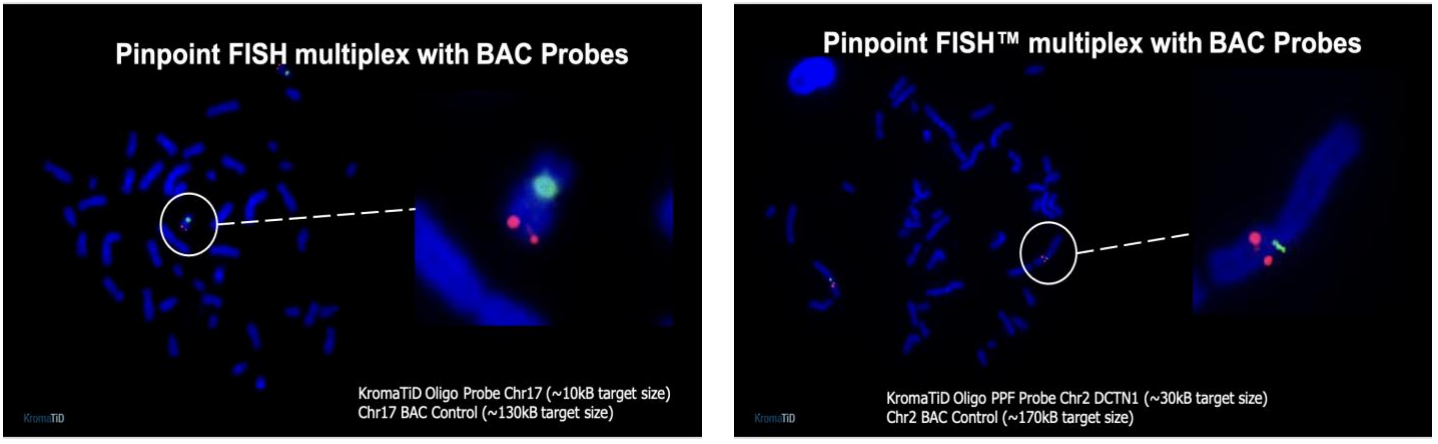

Figure 2. A KromaTiD PPF Probe targeting Chr17 multiplexed with a Chr17 BAC Probe (left). A KromaTiD PPF Probe targeting Chr2 multiplexed with a Chr2 BAC Probe (right).

APPLICATION NOTES