

### Pinpoint FISH™ DNA Probes

Pinpoint FISH™ DNA probes are synthetic oligonucleotide probes. These probes are designed to provide higher signal-to-noise ratio compared to BAC FISH probes. KromaTiD Pinpoint FISH™ probes deliver improved specificity and hybridization in standard FISH assays.

Our technology provides scientists robust and bright signals with low background noise and no Cot-1 DNA blocking required.

#### Key Benefits

- Competitive pricing
- Bright signals, low background
- Zero off-target binding
- Higher resolution than BAC probes
- Customizable and flexible probe designs

#### FISH Applications

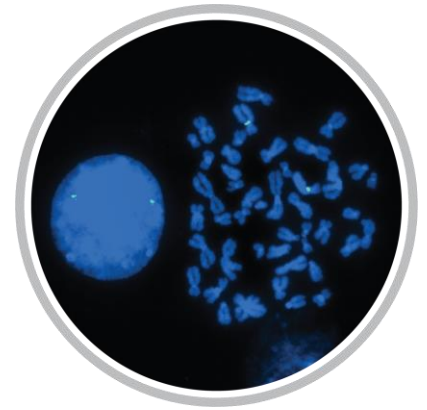
Pinpoint FISH™ DNA probes can be used for any FISH application including:

- Centromere enumeration
- Sub-telomere enumeration
- Oncology gene target enumeration
- Structural rearrangement detection

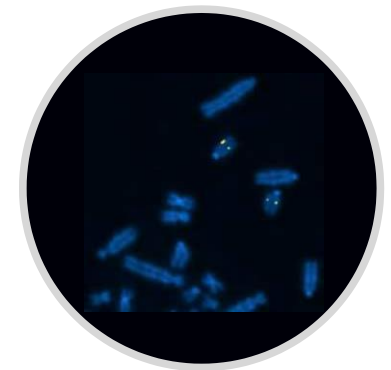
KromaTiD can produce custom PPF probes for any target in any sequenced mammalian genomes (e.g., mouse).

#### Smallest Targets and Highest Specificity

Pinpoint FISH™ probes detect targets smaller than BAC FISH probes. Pinpoint FISH™ allows researchers to expand beyond the capabilities of conventional FISH probes to design ultra-high specificity tests without the need for Cot-1 DNA blocking.



**Figure 1:** PPF probe labeled in green targeting pericentromeric region of chromosome 4 in a metaphase cell and an interphase cell.



**Figure 2:** Evaluation of small target (~10kb) integration in mammalian cells.

### Equipment and Sample Requirements

KromaTiD has designed the Pinpoint FISH™ probes to minimize adoption costs and training. For labs that currently run FISH, Pinpoint FISH™ probes will work with metaphase, interphase, or tissue samples using standard FISH consumables and equipment. KromaTiD's pinpoint FISH probes can be combined with BAC probes in the same assay.



**Figure 3:** Mammalian cell with control probes present in both homologs (yellow) and a ~10kb integrated sequence (red) in one chromosome.

### Pinpoint FISH™ Probe Pricing

Products	Size	List Price
Probes labeled with Atto550/Spectrum Orange	10 tests	\$145.00
Probes labeled with TexRed	10 tests	\$145.00
Probes labeled with 6-FAM/Spectrum Green	10 tests	\$145.00
Probes labeled with Atto643/647/Cy5	10 tests	\$145.57
Probes labeled with Atto425/Aqua	10 tests	\$145.50
FISH Hybridization Buffers	10 tests	\$5.00