Abnova Custom mutaFISH™ Service

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mutaFISH™ probes designed for your specific DNA and RNA mutations of interest in 4 weeks.

Custom mutaFISH™ service powered by integrated padlock probe and rolling circle amplification (RCA) technology provides highly sensitive mutaFISH™ probes for *in situ*, single cell, single molecule, DNA and RNA mutation detection at single nucleotide resolution.

Advantages

- *In Situ* Analysis of DNA & RNA
- Single Cell, Single Molecule Detection
- Single Nucleotide Resolution
- Higher Sensitivity than dPCR & NGS
- Multiplexing Capability
- No DNA or RNA Extraction

Applications

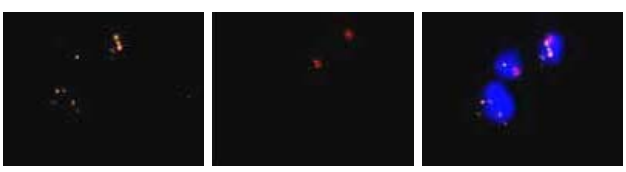
- Cell *In Situ* Hybridization
- Circulating Tumor Cell *In Situ* Hybridization
- Fresh Frozen Tissue *In Situ* Hybridization
- Formalin-Fixed Paraffin-Embedded Tissue *In Situ* Hybridization
- Flow Cytometry Mutation-Based Cell Sorting

General Flow Chart of Custom mutaFISH™ Probe Production

Discussion	Design	Production	Deliverables
• **Customer-Defined Targets** • **Evaluation of Custom Probe Production, Specification & Cost**	• **Design Process** • **Service Agreement**	• **mutaFISH™ Probes & Detection Probes Labeled with Desired Fluorophores**	• **COA** • **Probe Packing & Shipment**

Showcase 1: Point Mutation Detection

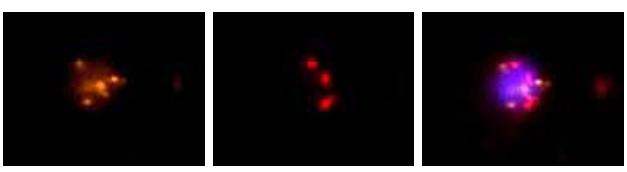
- **Application**: point mutation, insertion/deletion, gene edit, CRISPR/Cas9 validation & allele-specific gene expression.
- **Example**: detection of EGFR T790M point mutation on single strand RNA in human H1975 cells.



EGFR T790M (Cyc3) EGFR T790wt (Cyc5) Merge

Showcase 2: Exon Splice Variant Detection

- **Application**: exon splice variant, isoforms & knockout validation.
- **Example**: detection of exon splice variant of AR (AR-V7) on single strand RNA in human CWR22Rv1 cells.



AR-V7 (Cyc3) ARwt (Cyc5) Merge

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