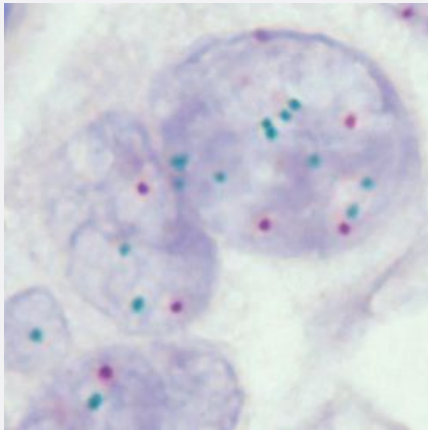


FGFR2/CEN10 CISH Probe

Catalog # CG0008 Size 400 uL

Applications



Chromogenic *In Situ* Hybridization (FFPE Tissue)

Breast carcinoma tissue section with FGFR2 (green) amplification.

Specification

Product Description	FGFR2/CEN10 CISH Probe is designed for the qualitative detection of human FGFR2 gene amplifications as well as the detection of chromosome 10 alpha satellites in formalin-fixed, paraffin-embedded specimens by chromogenic <i>in situ</i> hybridization (CISH).
Reactivity	Human
Recommend Usage	The product is ready-to-use. No reconstitution, mixing, or dilution is required. Bring probe to room temperature (18-25°C) and mix briefly before use.
Supplied Product	<p>Reagent Provided:</p> <p>This Probe is composed of:</p> <ol style="list-style-type: none"> 1. Digoxigenin-labeled polynucleotides, which target sequences mapping in 10q26.12-10q26.13* (chr10:123,080,085-123,492,398) harboring the FGFR2 gene region. 2. Dinitrophenyl-labeled polynucleotides, which target sequences mapping in 10p11.1-q11.1 specific for the alpha satellite centromeric region D10Z1 of chromosome 10. 3. Formamide based hybridization buffer.

*according to Human Genome Assembly GRCh37/hg19

Probe Position

Regulatory Status

For research use only (RUO)

Storage Instruction

Store at 2-8°C in an upright position. Return to storage conditions immediately after use.

Note

The probe is intended to be used in combination with the CISH Implementation Kit 2 (Catalog #: [KA5366](#)), which provides necessary reagents for specimen pretreatment and post-hybridization processing.

Interpretation of results:

Using the CISH Implementation Kit 2 (Cat # KA5366), hybridization signals of Digoxigenin-labeled polynucleotides appear as dark green colored distinct dots (FGFR2 gene region), and Dinitrophenyl-labeled polynucleotides appear as bright red colored distinct dots (CEN 10).

Normal situation: In interphases of normal cells or cells without an amplification involving the FGFR2 gene region, two distinct dot-shaped green and two distinct dot-shaped red signals appear.

Aberrant situation: In cells with an amplification of the FGFR2 gene region, an increased number of green signals or green signal clusters will be observed.

Overlapping signals may appear as brown signals. Other signal patterns than those described above may be observed in some abnormal samples. These unexpected signal patterns should be further investigated.

Interpretation of Result

Applications

- Chromogenic *In Situ* Hybridization (FFPE Tissue)

Breast carcinoma tissue section with FGFR2 (green) amplification.