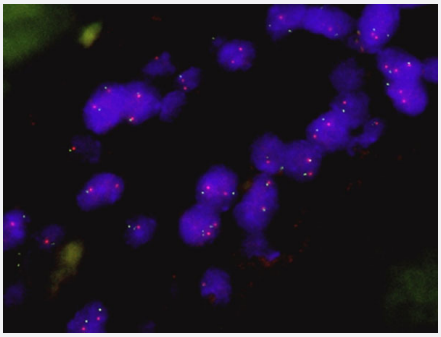
FGF19/CEN11p FISH Probe

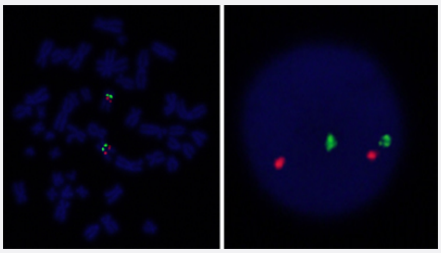
Catalog # FG0125 Size 200 uL, 100 uL

Applications



Fluorescent *In Situ* Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

Human breast (FFPE) stained with FGF19/CEN11p FISH Probe. Human breast showed no FGF19 amplification.



Hybridization position of the probes on the chromosome.

Hybridization position of the probes on the chromosome.

Specification

Product Description	Labeled FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization T echnique. (Technology).

Probe 1	**Name:** FGF19 **Size:** Approximately 170kb **Fluorophore:** Texas Red **Location:** 11q13.1
Probe 2	**Name:** CEN11p **Size:** Approximately 630kb **Fluorophore:** FITC **Location:** 11p11.12
Probe Gap	The gap between two probes is approximately 21,900 kb
Origin	Human
Source	Genomic DNA
Reactivity	Human
Form	Liquid
Notice	We **strongly recommend** the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections.
Regulation Status	For research use only (RUO)
Quality Control Testing	Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The l eft image is chromosomes at metaphase, and the right image is an interphase nucleus.
Supplied Product	DAPI Counterstain (1500 ng/mL) 125 uL for each 100 uL FISH Probe
Storage Instruction	Store at 4°C in the dark.
Note	Hybridization position of the probes on the chromosome. Hybridization position of the probes on the chromosome.

Applications

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

- Fluorescent *In Situ* Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

  Human breast (FFPE) stained with FGF19/CEN11p FISH Probe. Human breast showed no FGF19 amplification.

  Protocol Download

Gene Info — FGF19

Entrez GeneID	9965
Gene Name	FGF19
Gene Alias	-
Gene Description	fibroblast growth factor 19
Omim ID	603891
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes including embryonic development cell growth, morphogenesis, tissue repair, tumor growth and invasion. This growth factor is a high affinity, heparin dependent ligand for FGFR4. Expression of this gene was detected only in fetal but not adult brain tissue. Synergistic interaction of the chick homolog and Wnt-8c has been shown to be required for initiation of inner ear development. [provided by RefSeq
Other Designations	-

Publication Reference

- FGF19 genetic amplification as a potential therapeutic target in lung squamous cell carcinomas.

  Zhang X, Kong M, Zhang Z, Xu S, Yan F, Wei L, Zhou J.

  Thoracic Cancer 2017 Sep; 8(6):655.

  Application: FISH, Human, Human lung squamous cell carcinoma

Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton