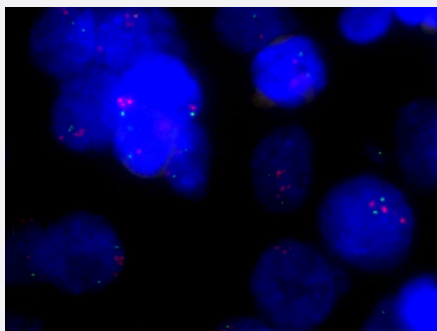


GLI2/CEN2p FISH Probe

Catalog # FG0126

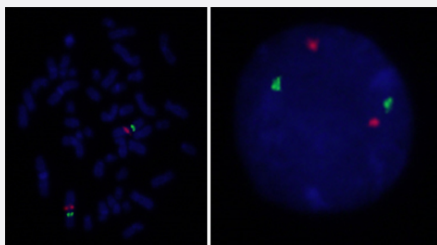
Size 200 uL, 100 uL

Applications



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

human breast cancer (FFPE) stained with GLI2/CEN2p FISH Probe . human breast cancer showed GLI2 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 Technique. ([Technology](#)).

Probe 1	Name: GLI2 Size: Approximately 510kb Fluorophore: Texas Red Location: 2q14.2
Probe 2	Name: CEN2p Size: Approximately 670kb Fluorophore: FITC Location: 2p11.2
Probe Gap	The gap between two probes is approximately 35,400 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 left 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 cancer (FFPE) stained with GLI2/CEN2p FISH Probe . human breast cancer showed GLI2 amplification.

[Protocol Download](#)

Gene Info — GLI2

Entrez GeneID [2736](#)

Gene Name GLI2

Gene Alias HPE9, THP1, THP2

Gene Description GLI-Kruppel family member GLI2

Omim ID [165230 610829](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a protein which belongs to the C2H2-type zinc finger protein subclass of the Gli family. Members of this subclass are characterized as transcription factors which bind DNA through zinc finger motifs. These motifs contain conserved H-C links. Gli family zinc finger proteins are mediators of Sonic hedgehog (Shh) signaling and they are implicated as potent oncogenes in the embryonal carcinoma cell. The protein encoded by this gene localizes to the cytoplasm and activates patched Drosophila homolog (PTCH) gene expression. It is also thought to play a role during embryogenesis. The encoded protein is associated with several phenotypes- Greig cephalopolysyndactyly syndrome, Pallister-Hall syndrome, preaxial polydactyly type IV, postaxial polydactyly types A1 and B. [provided by RefSeq]

Other Designations oncogene GLI2|tax helper protein 1|tax helper protein 2|tax-responsive element-2 holding protein|tax-responsive element-25-bp sequence binding protein|zinc finger protein GLI2

Pathway

- [Basal cell carcinoma](#)
- [Hedgehog signaling pathway](#)
- [Pathways in cancer](#)

Disease

- [Carcinoma](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)

- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Neoplasms](#)
- [Recurrence](#)
- [Tobacco Use Disorder](#)