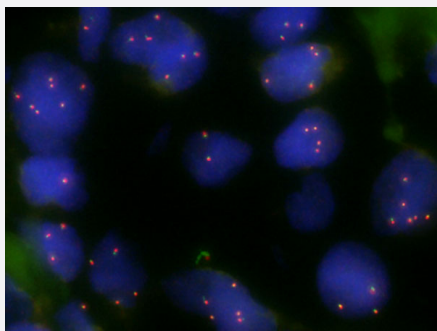


FGFR2 Split FISH Probe

Catalog # FS0026

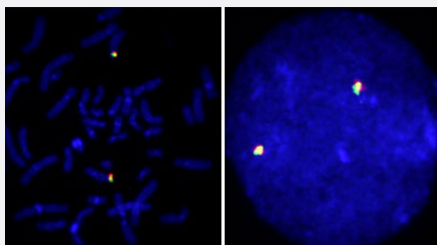
Size 200 uL, 100 uL

Applications



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

Human breast cancer (FFPE) stained with FGFR2 Split FISH Probe. Human breast cancer showed no FGFR2 gene split.



Specification

Product Description

Labeled FISH probes for identification of gene split using Fluorescent In Situ Hybridization Technique. ([Technology](#)).

Probe 1	Name: FGFR2 Size: Approximately 540kb Fluorophore: TexRed Location: 10q26
Probe 2	Name: FGFR2 Size: Approximately 720kb Fluorophore: FITC Location: 10q26
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	

Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

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

Human breast cancer (FFPE) stained with FGFR2 Split FISH Probe. Human breast cancer showed no FGFR2 gene split.

[Protocol Download](#)

Gene Info — FGFR2

Entrez GeneID

[2263](#)

Gene Name	FGFR2
Gene Alias	BEK, BFR-1, CD332, CEK3, CFD1, ECT1, FLJ98662, JWS, K-SAM, KGFR, TK14, TK25
Gene Description	fibroblast growth factor receptor 2
Omim ID	101200 101400 101600 123150 123500 123790 137215 149730 176943 207410
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq]
Other Designations	BEK fibroblast growth factor receptor FGF receptor OTTHUMP00000020621 OTTHUMP00000020629 bacteria-expressed kinase hydroxyaryl-protein kinase keratinocyte growth factor receptor protein tyrosine kinase, receptor like 14 soluble FGFR4 variant 4

Pathway

- [Endocytosis](#)
- [MAPK signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Acrocephalosyndactylia](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)

- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Craniofacial Dysostosis](#)
- [Craniosynostoses](#)
- [Cystadenocarcinoma](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Disease Susceptibility](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Genetic Predisposition to Disease](#)
- [Hypersensitivity](#)
- [Hypospadias](#)
- [Lymphatic Metastasis](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Metabolic Syndrome X](#)
- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Osteoporosis](#)

- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Schizophrenia](#)
- [Skin Neoplasms](#)
- [Sleep Apnea](#)
- [Tobacco Use Disorder](#)