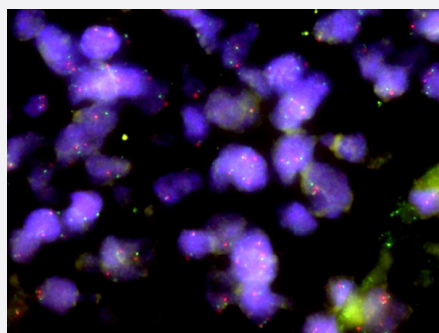


BRCA2/CEN13q FISH Probe

Catalog # FG0135

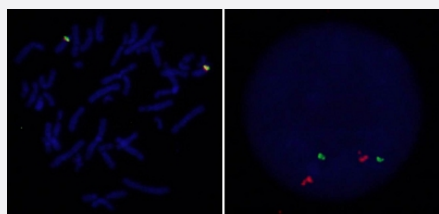
Size 200 uL, 100 uL

Applications



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

human tonsil (FFPE) stained with BRCA2/CEN13q FISH Probe. human tonsil showed no BRCA2 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: BRCA2 Size: Approximately 170kb Fluorophore: Texas Red Location: 13q13.1
Probe 2	Name: CEN13q Size: Approximately 550kb Fluorophore: FITC Location: 13q12.11
Probe Gap	The gap between two probes is approximately 4,670 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 tonsil (FFPE) stained with BRCA2/CEN13q FISH Probe. human tonsil showed no BRCA2 amplification.

[Protocol Download](#)

Gene Info — BRCA2

Entrez GeneID [675](#)

Gene Name BRCA2

Gene Alias BRCC2, FACD, FAD, FAD1, FANCB, FANCD, FANCD1

Gene Description breast cancer 2, early onset

Omim ID [114480](#) [155255](#) [176807](#) [194070](#) [260350](#) [600185](#) [605724](#)

Gene Ontology [Hyperlink](#)

Gene Summary Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele. [provided by RefSeq]

Other Designations BRCA1/BRCA2-containing complex, subunit 2|OTTHUMP00000018803|OTTHUMP00000042401|breast and ovarian cancer susceptibility gene, early onset|breast cancer 2 tumor suppressor|breast cancer susceptibility protein BRCA2

Pathway

- [Homologous recombination](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)

Disease

- [Abdominal Neoplasms](#)
- [Abortion](#)
- [Adenocarcinoma](#)
- [Anticipation](#)
- [Anxiety Disorders](#)

- [Ataxia telangiectasia](#)
- [Awareness](#)
- [Azoospermia](#)
- [Birth Weight](#)
- [Bloom Syndrome](#)
- [Body Image](#)
- [Body Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Carcinoma in Situ](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Choice Behavior](#)
- [Chromosome Aberrations](#)
- [Chromosome Breakage](#)
- [Chromosome Deletion](#)
- [Cocarcinogenesis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Counseling](#)
- [Cystadenocarcinoma](#)
- [Decision Making](#)

- [Diabetes Mellitus](#)
- [Discrimination \(Psychology\)](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Eye Neoplasms](#)
- [Fallopian Tube Neoplasms](#)
- [Fanconi Anemia](#)
- [Fatigue](#)
- [Fetal Death](#)
- [Functional Laterality](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hamartoma Syndrome](#)
- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hereditary hemochromatosis](#)
- [Hodgkin Disease](#)
- [Hyperplasia](#)
- [Hyperthyroidism](#)
- [Infertility](#)
- [Kidney Failure](#)

- [Kidney Neoplasms](#)
- [Knowledge of Results \(Psychology\)](#)
- [Leukemia](#)
- [Li-Fraumeni Syndrome](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Narcolepsy](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Oligospermia](#)
- [Ovarian cancer](#)
- [Ovarian Diseases](#)
- [Ovarian Neoplasms](#)

- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
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- [Stomach Neoplasms](#)
- [Stress](#)
- [Tay-Sachs disease](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)

- [Uveal Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)
- [Wilms Tumor](#)