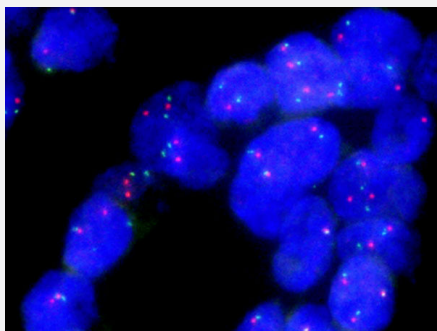


BRAF/CEN7q FISH Probe

Catalog # FG0134

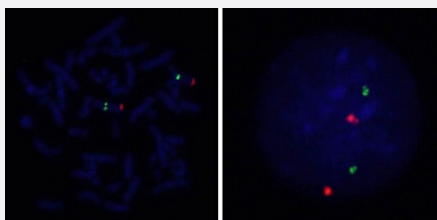
Size 200 uL, 100 uL

Applications



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

human ovary cancer (FFPE) stained with BRAF1/CEN7q FISH Probe . human ovary cancer showed no BRAF1 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: BRAF Size: Approximately 390kb Fluorophore: Texas Red Location: 7p12
Probe 2	Name: CEN7q Size: Approximately 820kb Fluorophore: FITC Location: 7q11.21
Probe Gap	The gap between two probes is approximately 75,250 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 ovary cancer (FFPE) stained with BRAF1/CEN7q FISH Probe . human ovary cancer showed no BRAF1 amplification.

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Gene Info — BRAF

Entrez GeneID [673](#)

Gene Name BRAF

Gene Alias B-RAF1, BRAF1, FLJ95109, MGC126806, MGC138284, RAFB1

Gene Description v-raf murine sarcoma viral oncogene homolog B1

Omim ID [115150 164757 211980](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a protein belonging to the raf/mil family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene. [provided by RefSeq]

Other Designations 94 kDa B-raf protein|B-Raf proto-oncogene serine/threonine-protein kinase (p94)|Murine sarcoma viral (v-raf) oncogene homolog B1

Pathway

- [Acute myeloid leukemia](#)
- [Bladder cancer](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Glioma](#)
- [Insulin signaling pathway](#)

- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [mTOR signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [Thyroid cancer](#)
- [Vascular smooth muscle contraction](#)

Disease

- [Abnormalities](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adrenal Cortex Neoplasms](#)
- [Alcoholism](#)
- [Articulation Disorders](#)
- [Astrocytoma](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cell Transformation](#)
- [Chromosomal Instability](#)
- [Chromosome Aberrations](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Common Bile Duct Neoplasms](#)
- [Craniofacial Abnormalities](#)
- [Cystadenocarcinoma](#)
- [Cystadenoma](#)
- [Developmental Disabilities](#)
- [Dilatation](#)
- [Disease Progression](#)
- [Diseases in Twins](#)
- [Dyslexia](#)
- [Ectodermal Dysplasia](#)
- [Endometrial Hyperplasia](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Eosinophilia](#)

- [Esophageal Neoplasms](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Goiter](#)
- [Hashimoto Disease](#)
- [Head and Neck Neoplasms](#)
- [Hearing](#)
- [Heart Defects](#)
- [Hyperpigmentation](#)
- [Hyperplasia](#)
- [Immunologic Deficiency Syndromes](#)
- [Language Disorders](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Memory](#)
- [Microsatellite Instability](#)
- [Motor Skills](#)
- [Nasopharyngeal Neoplasms](#)
- [Necrosis](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)

- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Nerve Sheath Neoplasms](#)
- [Neurofibromatosis](#)
- [Neurofibromatosis 1](#)
- [Nevus](#)
- [Noonan Syndrome](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Precancerous Conditions](#)
- [Prostatic Neoplasms](#)
- [Ras oncogene](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Salivary Gland Neoplasms](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Testicular Neoplasms](#)
- [Thyroid Diseases](#)
- [Thyroid Neoplasms](#)
- [Thyroid Nodule](#)

- [Thyroiditis](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)