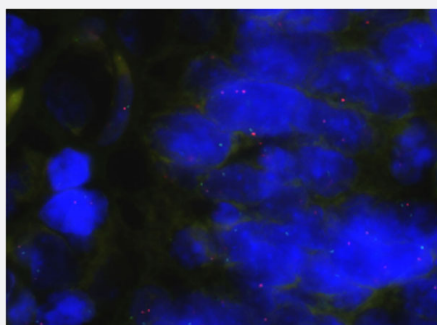


APC/CEN5q FISH Probe

Catalog # FG0021

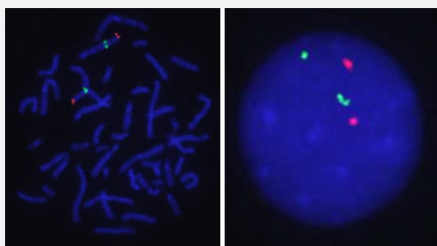
Size 200 uL, 100 uL

Applications



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

Human colon cancer (FFPE) stained with APC/CEN5q FISH Probe. Human colon cancer showed no APC gene 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: APC Size: Approximately 420kb Fluorophore: Texas Red Location: 5q22.2
Probe 2	Name: CEN5q Size: Approximately 700kb Fluorophore: FITC Location: 5q11.2
Probe Gap	The gap between two probes is approximately 59,200 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 colon cancer (FFPE) stained with APC/CEN5q FISH Probe. Human colon cancer showed no APC gene amplification.

[Protocol Download](#)

Gene Info — APC

Entrez GeneID [324](#)

Gene Name APC

Gene Alias BTPS2, DP2, DP2.5, DP3, GS

Gene Description adenomatous polyposis coli

Omim ID [135290](#) [137215](#) [155255](#) [175100](#) [276300](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a tumor suppressor protein that acts as an antagonist of the Wnt signaling pathway. It is also involved in other processes including cell migration and adhesion, transcriptional activation, and apoptosis. Defects in this gene cause familial adenomatous polyposis (FAP), an autosomal dominant pre-malignant disease that usually progresses to malignancy. Disease-associated mutations tend to be clustered in a small region designated the mutation cluster region (MCR) and result in a truncated protein product. [provided by RefSeq]

Other Designations adenomatosis polyposis coli tumor suppressor

Pathway

- [Basal cell carcinoma](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)

- [Adenomatous Polyps](#)
- [Autistic Disorder](#)
- [Barrett Esophagus](#)
- [Bone Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Chromosomal Instability](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Colitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Duodenal Neoplasms](#)
- [Edema](#)
- [Ependymoma](#)
- [Epidermal Cyst](#)
- [Esophageal Neoplasms](#)
- [Fibromatosis](#)

- [Gardner Syndrome](#)
- [Gastroesophageal Reflux](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Hyperplasia](#)
- [Inflammatory Bowel Diseases](#)
- [Intestinal Polyps](#)
- [Jejunal Neoplasms](#)
- [Kidney Failure](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Metaplasia](#)
- [Microsatellite Instability](#)
- [Multiple Organ Failure](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Osteoma](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)

- [Psychiatric Status Rating Scales](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Systemic Inflammatory Response Syndrome](#)
- [Tay-Sachs disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)