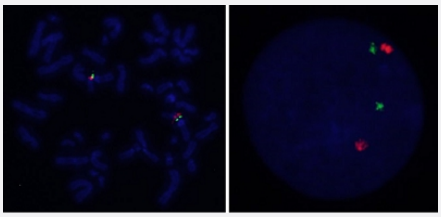
Sm Size

DPYD/CEN1p FISH Probe

Catalog # FG0219 Size 200 uL, 100 uL

Applications



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 T echnique. (Technology).
Probe 1	**Name:** DPYD **Size:** Approximately 800kb **Fluorophore:** TexRed **Location:** 1p22
Probe 2	**Name:** CEN1p **Size:** Approximately 780kb **Fluorophore:** FITC **Location:** 1p13.3
Origin	Human

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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 l eft image is chromosomes at metaphase, and the right image is an interphase nucleus.
Supplied Products	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.
Self-Attestation	Abnova self-attests to comply with the U.S. Framework for Nucleic Acid Synthesis Screening

Applications

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

Gene Info — DPYD

Entrez GeneID	1806
Gene Name	DPYD
Gene Alias	DHP, DHPDHASE, DPD, MGC132008, MGC70799
Gene Description	dihydropyrimidine dehydrogenase
Omim ID	274270
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is a pyrimidine catabolic enzyme and the initial and rate-limiting factor in the pathway of uracil and thymidine catabolism. Mutations in this gene result in dihydropyr imidine dehydrogenase deficiency, an error in pyrimidine metabolism associated with thymine-ur aciluria and an increased risk of toxicity in cancer patients receiving 5-fluorouracil chemotherapy. Two transcript variants encoding different isoforms have been found for this gene. [provided by R efSeq
Other Designations	OTTHUMP00000037640|OTTHUMP00000058954|dihydrothymine dehydrogenase|dihydrouracil dehydrogenase

Pathway

- beta-Alanine metabolism
- Drug metabolism - other enzymes
- Metabolic pathways
- Pantothenate and CoA biosynthesis
- Pyrimidine metabolism

Disease

- Adenocarcinoma
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Diarrhea
- Dihydropyrimidine Dehydrogenase Deficiency
- Disease Progression
- Drug Toxicity

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- Esophageal Neoplasms
- Gastrointestinal Diseases
- Genetic Predisposition to Disease
- Hearing Loss
- Hematologic Diseases
- Hematologic Neoplasms
- Kidney Diseases
- Kidney Failure
- Leukopenia
- Mucositis
- Neoplasm Invasiveness
- Neoplasm Recurrence
- Neoplasms
- Neurotoxicity Syndromes
- Neutropenia
- Ovarian Neoplasms
- Pancreatic Neoplasms
- Rectal Neoplasms
- Stomach Neoplasms
- Stomatitis
- Thrombocytopenia
- Tobacco Use Disorder

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