# CCND3/CEN6p FISH Probe

Catalog # FG0084 Size 200 uL, 100 uL

## Applications



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

Human breast cancer (FFPE) stained with CCND3/CEN6p FISH Probe. Human breast cancer showed no CCND3 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 T echnique. (<u>Technology</u>).

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🍟 Abnova	Product Information
Probe 1	Name: CCND3 Size: Approximately 260kb Fluorophore: Texas Red Location: 6p21.1
Probe 2	Name: CEN6p Size: Approximately 660kb Fluorophore: FITC Location: 6p12.1
Probe Gap	The gap between two probes is approximately 6,200 kb.
Origin	Human
Source	Genomic DNA
Reactivity	Human
Form	Liquid
Notice	We <b>strongly recommend</b> the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: <u>KA2375</u> or <u>KA2691</u> ) 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 I eft 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)
  <u>Protocol Download</u>
- Fluorescent In Situ Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

Human breast cancer (FFPE) stained with CCND3/CEN6p FISH Probe. Human breast cancer showed no CCND3 gene amplification.

Protocol Download



### Gene Info — CCND3

Entrez GenelD	<u>896</u>
Gene Name	CCND3
Gene Alias	-
Gene Description	cyclin D3
Omim ID	<u>123834</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phos phorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene. [provided b y RefSeq
Other Designations	D3-type cyclin G1/S-specific cyclin D3 OTTHUMP00000016390

#### Pathway

- Cell cycle
- Focal adhesion
- Jak-STAT signaling pathway
- p53 signaling pathway
- Wnt signaling pathway

#### Disease

- Adenocarcinoma
- <u>Alzheimer disease</u>

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**Product Information** 

- Breast cancer
- Breast Neoplasms
- Cerebral Amyloid Angiopathy
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Kidney Failure
- Lung Neoplasms
- Neoplasm Invasiveness
- <u>Neuroblastoma</u>
- Ovarian cancer
- Ovarian Neoplasms
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Werner syndrome