

CCND2 Split FISH Probe

Catalog # FS0036 Size 200 uL, 100 uL

Applications



Hybridization position of the probes on the chromosome.

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Specification	
Product Description	Labeled FISH probes for identification of gene split using Fluorescent In Situ Hybridization Techniqu e. (<u>Technology</u>).
Probe 1	Name: CCND2
	Size: Approximately 580kb
	Fluorophore: Texas Red
	Location: 12p13.32
Probe 2	Name: CCND2
	Size: Approximately 690kb
	Fluorophore: FITC
	Location: 12p13.32
Probe Gap	The gap between two probes is approximately 90 kb

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Product Information

Origin	Human
Source	Genomic DNA
Reactivity	Human
Form	Liquid
Notice	We strongly recommend 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)

Protocol Download

Gene Info — CCND2

Entrez GenelD	<u>894</u>
Gene Name	CCND2
Gene Alias	KIAK0002, MGC102758
Gene Description	cyclin D2
Omim ID	<u>123833</u>
Gene Ontology	Hyperlink

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Product Information

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. Knockout studies of the homologous gene in mouse s uggest the essential roles of this gene in ovarian granulosa and germ cell proliferation. High level expression of this gene was observed in ovarian and testicular tumors. [provided by RefSeq
Other Designations	G1/S-specific cyclin D2

Publication Reference

• <u>Pleomorphic mantle cell lymphoma morphologically mimicking diffuse large B-cell lymphoma: common cyclin</u> <u>D1 negativity and a simple immunohistochemical algorithm to avoid the diagnostic pitfall.</u>

Chuang WY, Chang H, Chang GJ, Wang TH, Chang YS, Wang TH, Yeh CJ, Ueng SH, Chien HP, Chang CY, Wan YL, Hsueh C. Histopathology 2017 May; 70(6):986.

Application: FISH, Human, Human pleomorphic mantle cell lymphoma (PMCL)

Pathway

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

Disease

- Breast cancer
- Breast Neoplasms
- Carcinoma
- Diabetes Mellitus
- Genetic Predisposition to Disease

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Product Information

- Hepatitis B
- Kidney Failure
- Liver Neoplasms
- <u>Narcolepsy</u>
- <u>Neoplasm Invasiveness</u>
- Ovarian cancer
- Ovarian Neoplasms