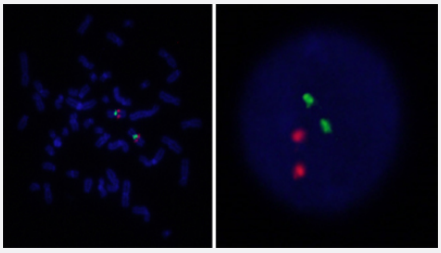
CDK6/CEN7q FISH Probe

Catalog # FG0127 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 amplification using Fluorescent In Situ Hybridization T echnique. (Technology).
Probe 1	**Name:** CDK6 **Size:** Approximately 370kb **Fluorophore:** Texas Red **Location:** 7q21.2
Probe 2	**Name:** CEN7q **Size:** Approximately 820kb **Fluorophore:** FITC **Location:** 7q11.21
Probe Gap	The gap between two probes is approximately 27,100 kb

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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 l 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 — CDK6

Entrez GeneID	1021
Gene Name	CDK6
Gene Alias	MGC59692, PLSTIRE, STQTL11
Gene Description	cyclin-dependent kinase 6
Omim ID	603368
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of Saccharomyces cerevisiae cdc28, and Schizosaccharomyces pombe cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. [provided by RefSeq
Other Designations	cell division protein kinase 6

Publication Reference

- Integrated analysis of pediatric glioblastoma reveals a subset of biologically favorable tumors with associated molecular prognostic markers.

  Korshunov A, Ryzhova M, Hovestadt V, Bender S, Sturm D, Capper D, Meyer J, Schrimpf D, Kool M, Northcott PA, Zheludkova O, Milde T, Witt O, Kulozik AE, Reifenberger G, Jabado N, Perry A, Lichter P, von Deimling A, Pfister SM, Jones DT.

  Acta Neuropathologica 2015 May; 129(5):669.

  Application: FISH-P, Human, Human glioblastoma

Pathway

- Cell cycle
- Chronic myeloid leukemia
- Glioma
- Melanoma
- Non-small cell lung cancer
- p53 signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Small cell lung cancer

Disease

- Adenocarcinoma

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- Arthritis
- Autoimmune Diseases
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Growth Disorders
- Head and Neck Neoplasms
- Inflammation
- Kidney Failure
- Mouth Neoplasms
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Precancerous Conditions
- Recurrence
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Wegener Granulomatosis

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