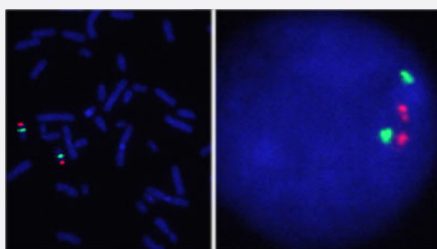


# APRT/CEN16q FISH Probe

Catalog # FG0068

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 Technique. ([Technology](#)).

### Probe 1

**Name:** APRT  
**Size:** Approximately 330kb  
**Fluorophore:** Texas Red  
**Location:** 16q24.3

### Probe 2

**Name:** CEN16q  
**Size:** Approximately 700kb  
**Fluorophore:** FITC  
**Location:** 16q12.1

### Probe Gap

The gap between two probes is approximately 39,000 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 #: <a href="#">KA2375</a> or <a href="#">KA2691</a> ) 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](#)

## Gene Info — APRT

Entrez GeneID	<a href="#">353</a>
Gene Name	APRT
Gene Alias	AMP, DKFZp686D13177, MGC125856, MGC125857, MGC129961
Gene Description	adenine phosphoribosyltransferase
Omim ID	<a href="#">102600</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

Adenine phosphoribosyltransferase belongs to the purine/pyrimidine phosphoribosyltransferase family. A conserved feature of this gene is the distribution of CpG dinucleotides. This enzyme catalyzes the formation of AMP and inorganic pyrophosphate from adenine and 5-phosphoribosyl-1-pyrophosphate (PRPP). It also produces adenine as a by-product of the polyamine biosynthesis pathway. A homozygous deficiency in this enzyme causes 2,8-dihydroxyadenine urolithiasis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations**

AMP diphosphorylase|AMP pyrophosphorylase|adenine phosphoribosyltransferase, isoform a|transphosphoribosidase

## Pathway

- [Metabolic pathways](#)
- [Purine metabolism](#)