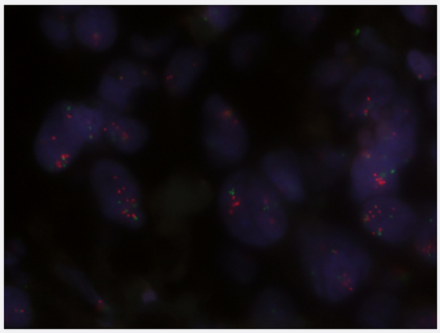
# FGF23/CEN12p FISH Probe

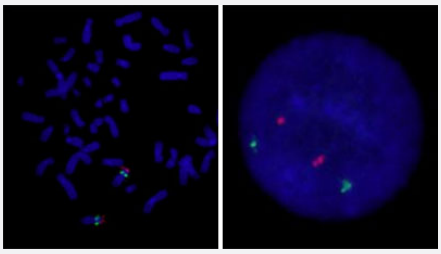
Catalog # FG0001 Size 200 uL, 100 uL

## Applications



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

Human uterus cancer (FFPE) stained with FGF23/CEN12p FISH Probe. Human uterus cancer showed FGF23 gene amplification.



### Hybridization position of the probes on the chromosome.

Hybridization position of the probes on the chromosome.

## Specification

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|---|---|
| **Product Description** | Labeled FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization T echnique. (Technology). |

| | |
|---|---|
| **Probe 1** | **Name:** FGF23<br>**Size:** Approximately 300kb<br>**Fluorophore:** Texas Red<br>**Location:** 12p13 |
| **Probe 2** | **Name:** CEN12p<br>**Size:** Approximately 530kb<br>**Fluorophore:** FITC<br>**Location:** 12p11.22 |
| **Probe Gap** | The gap between two probes is approximately 25,100 kb. |
| **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.<br><br>Hybridization position of the probes on the chromosome. |

## Applications

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

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

  Human uterus cancer (FFPE) stained with FGF23/CEN12p FISH Probe. Human uterus cancer showed FGF23 gene amplification.

  Protocol Download

## Gene Info — FGF23

| | |
|---|---|
| **Entrez GeneID** | 8074 |
| **Gene Name** | FGF23 |
| **Gene Alias** | ADHR, HPDR2, HYPF, PHPTC |
| **Gene Description** | fibroblast growth factor 23 |
| **Omim ID** | 193100 211900 605380 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. The product of this gene inhibits renal tubular phosphate transport. This gene was identified by its mutations associated with autosomal dominant hypophosphatemic rickets (ADHR), an inherited phosphate wasting disorder. Abnormally high level expression of this gene was found in oncogenic hypophosphatemic osteomalacia (OHO), a phenotypically similar disease caused by abnormal phosphate metabolism. Mutations in this gene have also been shown to cause familial tumoral calcinosis with hyperphosphatemia. [provided by RefSeq |
| **Other Designations** | tumor-derived hypophosphatemia inducing factor |

## Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton

## Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications

- Hypercalcemia
- Hypercalciuria
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis
- Tobacco Use Disorder