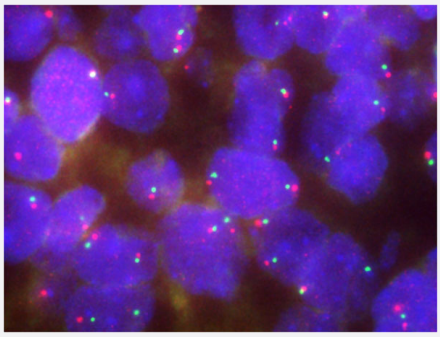
ATP7A/CENXp FISH Probe

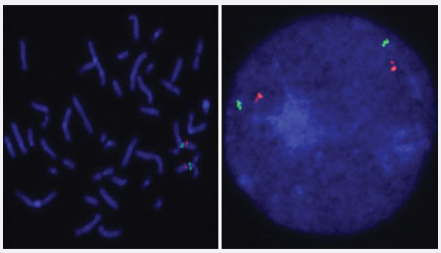
Catalog # FG0056 Size 200 uL, 100 uL

Applications



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

Human ovary cancer (FFPE) stained with ATP7A/CENXp FISH Probe. Human ovary cancer showed no ATP7A 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. (Technology).

Probe 1	**Name:** ATP7A **Size:** Approximately 350kb **Fluorophore:** Texas Red **Location:** Xq21.1
Probe 2	**Name:** CENXp **Size:** Approximately 550kb **Fluorophore:** FITC **Location:** Xp11.22
Probe Gap	The gap between two probes is approximately 27,500 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: 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 ovary cancer (FFPE) stained with ATP7A/CENXp FISH Probe. Human ovary cancer showed no ATP7A gene amplification.

  Protocol Download

Gene Info — ATP7A

Entrez GeneID	538
Gene Name	ATP7A
Gene Alias	FLJ17790, MK, MNK
Gene Description	ATPase, Cu++ transporting, alpha polypeptide
Omim ID	300011 304150 309400
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a transmembrane protein that functions in copper transport across membrane s. The protein localizes to the trans-Golgi network, where it is predicted to supply copper to coppe r-dependent enzymes in the secretory pathway. The protein relocalizes to the plasma membrane under conditions of elevated extracellular copper and functions in the efflux of copper from cells. M utations in this gene result in Menkes disease, X-linked cutis laxa, and occipital horn syndrome. [p rovided by RefSeq
Other Designations	Cu++-transporting P-type ATPase|Menkes disease-associated protein|Menkes syndrome|OTTH UMP00000023593|OTTHUMP00000062077|copper pump 1|copper-transporting ATPase 1