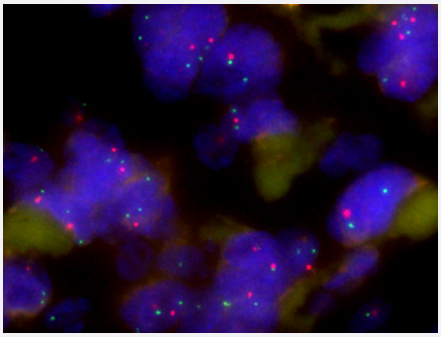
BAP1/CEN3q FISH Probe

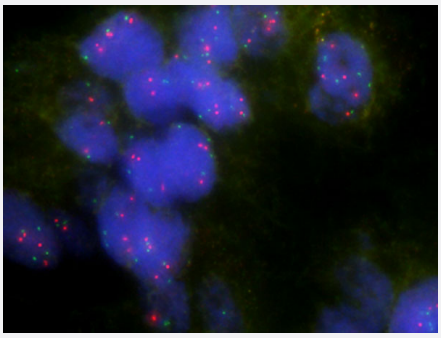
Catalog # FG0092 Size 200 uL, 100 uL

Applications



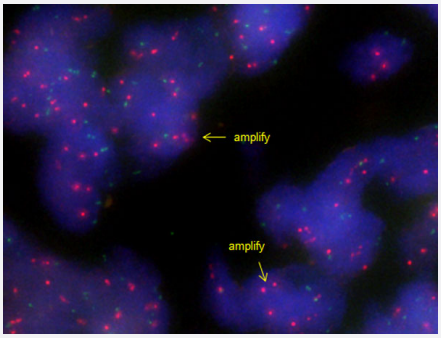
Fluorescent *In Situ* Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

Human pancreatic cancer (FFPE) stained with BAP1/CEN3q FISH Probe. Human pancreatic cancer showed no BAP1 gene amplification.



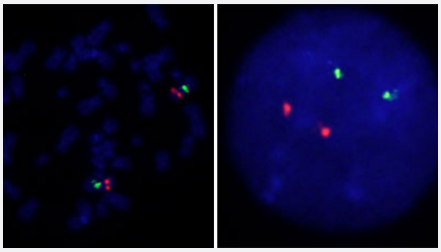
Fluorescent *In Situ* Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

Human lung adenocarcinoma (FFPE) stained with BAP1/CEN3q FISH Probe. Human lung adenocarcinoma showed no BAP1 gene amplification.



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

Human prostate cancer (FFPE) stained with BAP1/CEN3q FISH Probe. Human prostate cancer showed BAP1 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:** BAP1 **Size:** Approximately 150kb **Fluorophore:** TexRed **Location:** 3p21.1
Probe 2	**Name:** CEN3q **Size:** Approximately 500kb **Fluorophore:** FITC **Location:** 3q12.1
Probe Gap	The gap between two probes is approximately 43080 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 pancreatic cancer (FFPE) stained with BAP1/CEN3q FISH Probe. Human pancreatic cancer showed no BAP1 gene amplification.

  Protocol Download

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

  Human lung adenocarcinoma (FFPE) stained with BAP1/CEN3q FISH Probe. Human lung adenocarcinoma showed no BAP1 gene amplification.

  Protocol Download

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

  Human prostate cancer (FFPE) stained with BAP1/CEN3q FISH Probe. Human prostate cancer showed BAP1 gene amplification.

  Protocol Download

Gene Info — BAP1

Entrez GeneID	8314
Gene Name	BAP1
Gene Alias	DKFZp686N04275, FLJ35406, FLJ37180, HUCEP-13, KIAA0272, UCHL2, hucep-6
Gene Description	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)

Omim ID	603089
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene localizes to the nucleus and it interacts with the RING finger do main of the breast cancer 1, early onset protein (BRCA1). This gene is thought to be a tumor supp ressor gene that functions in the BRCA1 growth control pathway. There are multiple polyadenylati on sites found in this gene. [provided by RefSeq
Other Designations	BRCA1 associated protein-1|cerebral protein-13|cerebral protein-6|ubiquitin carboxy-terminal hyd rolase

Publication Reference

- Sensitivity to asbestos is increased in patients with mesothelioma and pathogenic germline variants in BAP1 or other DNA repair genes.

  Betti M, Aspesi A, Ferrante D, Sculco M, Righi L, Mirabelli D, Napoli F, Rondón-Lagos M, Casalone E, Vignolo Lutati F, Ogliara P, Bironzo P, Gironi CL, Savoia P, Maffè A, Ungari S, Grosso F, Libener R, Boldorini R, Valiante M, Pasini B, Matullo G, Scagliotti G, Magnani C, Dianzani I.

  Genes, Chromosomes & Cancer 2018 Nov; 57(11):573.

  Application: FISH, Human, Human malignant pleural mesothelioma, Pleural effusion cells

- BAP1 (BRCA1-associated protein 1) is a highly specific marker for differentiating mesothelioma from reactive mesothelial proliferations.

  Cigognetti M, Lonardi S, Fisogni S, Balzarini P, Pellegrini V, Tironi A, Bercich L, Bugatti M, Rossi G, Murer B, Barbareschi M, Giuliani S, Cavazza A, Marchetti G, Vermi W, Facchetti F.

  Modern Pathology 2015 Aug; 28(8):1043.

  Application: FISH, Human, Mesothelioma

Disease

- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease
- Ovarian Neoplasms
- Schizophrenia