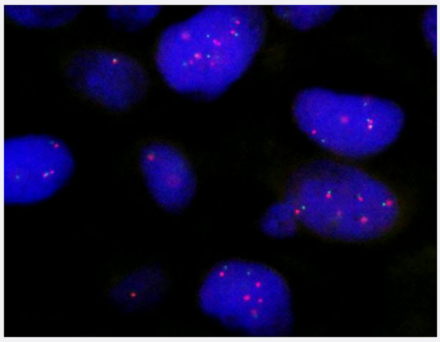
NF1/CEN17q FISH Probe

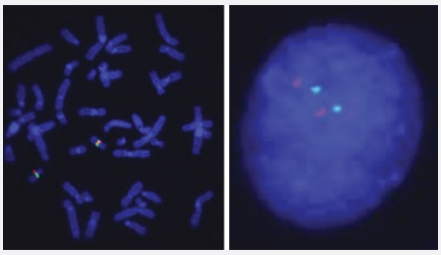
Catalog # FG0053 Size 200 uL, 100 uL

Applications



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

Huma lung, adenosquamous cell carcinoma (FFPE) stained with NF1/CEN17q FISH Probe. Human lung, adenosquamous cell carcinoma showed no NF1 gene amplification.



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:** NF1 **Size:** Approximately 260kb **Fluorophore:** Texas Red **Location:** 17q11.2
Probe 2	**Name:** CEN17q **Size:** Approximately 540kb **Fluorophore:** FITC **Location:** 17q11.2
Probe Gap	The gap between two probes is approximately 2,740 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)

  Huma lung, adenosquamous cell carcinoma (FFPE) stained with NF1/CEN17q FISH Probe. Human lung, adenosquamous cell carcinoma showed no NF1 gene amplification.

  Protocol Download

Gene Info — NF1

Entrez GeneID	4763
Gene Name	NF1
Gene Alias	DKFZp686J1293, FLJ21220, NFNS, VRNF, WSS
Gene Description	neurofibromin 1
Omim ID	162200 162210 193520 601321 607785
Gene Ontology	Hyperlink
Gene Summary	This gene product appears to function as a negative regulator of the ras signal transduction pathway. Mutations in this gene have been linked to neurofibromatosis type 1, juvenile myelomonocytic leukemia and Watson syndrome. The mRNA for this gene is subject to RNA editing (CGA>UGA->Arg1306Term) resulting in premature translation termination. Alternatively spliced transcript variants encoding different isoforms have also been described for this gene. [provided by RefSeq
Other Designations	neurofibromin

Pathway

- MAPK signaling pathway

Disease

- Adrenal Gland Neoplasms
- Autistic Disorder
- Cardiovascular Diseases
- Craniofacial Abnormalities
- Diabetes Mellitus
- Edema
- Epilepsy
- Facies

- Genetic Predisposition to Disease
- Growth Disorders
- Learning Disorders
- Leukemia
- Multiple endocrine neoplasia
- Myelodysplastic Syndromes
- Nerve Sheath Neoplasms
- Neurofibromatosis
- Neurofibromatosis 1
- Noonan Syndrome
- Pancreatic cancer
- Pancreatic Neoplasms
- Pheochromocytoma
- Spasms
- Syndrome
- Tobacco Use Disorder
- Tuberous sclerosis