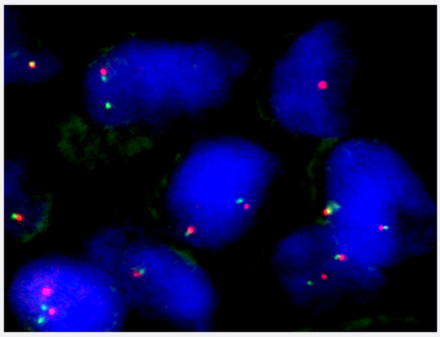
Sm Size

NF2/CEN22q FISH Probe

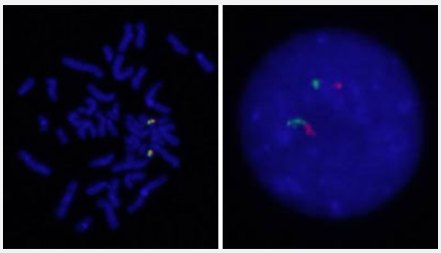
Catalog # FG0003 Size 200 uL, 100 uL

Applications



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

Human breast cancer (FFPE) stained with NF2/CEN22q FISH Probe. Human breast cancer showed no NF2 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).

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Probe 1	**Name:** NF2 **Size:** Approximately 300kb **Fluorophore:** Texas Red **Location:** 22q12.2
Probe 2	**Name:** CEN22q **Size:** Approximately 620kb **Fluorophore:** FITC **Location:** 22q11.22
Probe Gap	The gap between two probes is approximately 4,000 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 Products	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.
Self-Attestation	Abnova self-attests to comply with the U.S. Framework for Nucleic Acid Synthesis Screening

Applications

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

  Human breast cancer (FFPE) stained with NF2/CEN22q FISH Probe. Human breast cancer showed no NF2 gene amplification.

  Protocol Download

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- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

Gene Info — NF2

Entrez GeneID	4771
Gene Name	NF2
Gene Alias	ACN, BANF, SCH
Gene Description	neurofibromin 2 (merlin)
Omim ID	101000 162091 607174 607379
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that is similar to some members of the ERM (ezrin, radixin, moesin) family of proteins that are thought to link cytoskeletal components with proteins in the cell membrane. This gene product has been shown to interact with cell-surface proteins, proteins involved in cytoskeletal dynamics and proteins involved in regulating ion transport. This gene is expressed at high levels during embryonic development; in adults, significant expression is found in Schwann cells, meningeal cells, lens and nerve. Mutations in this gene are associated with neurofibromatosis type II which is characterized by nervous system and skin tumors and ocular abnormalities. Two predominant isoforms and a number of minor isoforms are produced by alternatively spliced transcripts. [provided by RefSeq
Other Designations	merlin|moesin-ezrin-radixin like|moesin-ezrin-radizin-like protein|neurofibromin 2|neurofibromin 2 (bilateral acoustic neuroma)|schwannomerlin|schwannomin

Publication Reference

- Usefulness of NF2 hemizygous loss detected by fluorescence in situ hybridization in diagnosing pleural mesothelioma in tissue and cytology material: A multi-institutional study.

  Prakasit Sa-Ngiamwibool, Makoto Hamasaki, Yoshiaki Kinoshita, Shinji Matsumoto, Ayuko Sato, Tohru Tsujimura, Kunimitsu Kawahara, Takahiko Kasai, Kei Kushitani, Yukio Takeshima, Kenzo Hiroshima, Akinori Iwasaki, Kazuki Nabeshima.

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  Application: FISH-P, Human, Human Lung

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- Fluorescence in situ hybridization detection of chromosome 22 monosomy in pleural effusion cytology for the diagnosis of mesothelioma.

  Yoshiaki Kinoshita, Makoto Hamasaki, Shinji Matsumoto, Masayo Yoshimura, Ayuko Sato, Tohru Tsujimura, Toshiaki Kamei, Kunimitsu Kawahara, Akinori Iwasaki, Kazuki Nabeshima.

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Disease

- Disease Progression
- Disease Susceptibility
- Genetic Predisposition to Disease
- HIV Infections
- Meningeal Neoplasms
- Meningioma
- Neoplasms
- Nervous System Neoplasms
- Neurofibromatosis
- Neurofibromatosis 2
- Neuroma
- Pancreatic cancer
- Pancreatic Neoplasms
- Tobacco Use Disorder

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