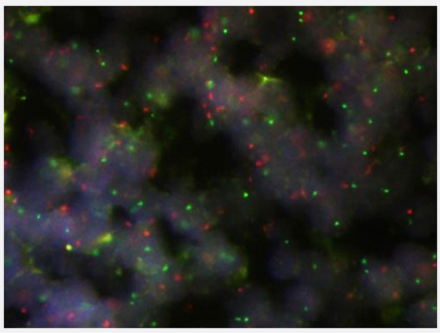
Sm Size

AML1/ETO DY Translocation FISH Probe

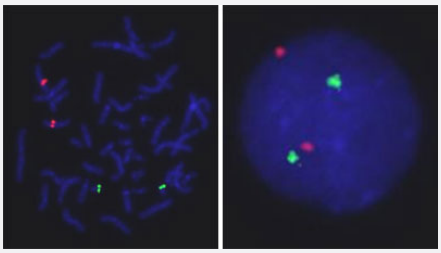
Catalog # FT0003 Size 200 uL, 100 uL

Applications



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

Human lymph node (FFPE) stained with AML1/ETO DY Translocation FISH Probe. Human lymph node cancer showed no AML1/ETO DY Translocation.



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 translocation using Fluorescent In Situ Hybridization T echnique. (Technology).

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Probe 1	**Name:** AML1 **Size:** Approximately 1340kb **Fluorophore:** FITC **Location:** 21q22.12
Probe 2	**Name:** ETO **Size:** Approximately 1110kb **Fluorophore:** Texas Red **Location:** 8q21.3
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 lymph node (FFPE) stained with AML1/ETO DY Translocation FISH Probe. Human lymph node cancer showed no AML1/ETO DY Translocation.

  Protocol Download

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

Gene Info — RUNX1

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Entrez GeneID	861
Gene Name	RUNX1
Gene Alias	AML1, AML1-EVI-1, AMLCR1, CBFA2, EVI-1, PEBP2aB
Gene Description	runt-related transcription factor 1
Omim ID	151385 180300 601399 601626
Gene Ontology	Hyperlink
Gene Summary	Core binding factor (CBF) is a heterodimeric transcription factor that binds to the core element of many enhancers and promoters. The protein encoded by this gene represents the alpha subunit o f CBF and is thought to be involved in the development of normal hematopoiesis. Chromosomal tr anslocations involving this gene are well-documented and have been associated with several type s of leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	AML1-EVI-1 fusion protein|acute myeloid leukemia 1|aml1 oncogene|core-binding factor, runt do main, alpha subunit 2

Gene Info — RUNX1T1

Entrez GeneID	862
Gene Name	RUNX1T1
Gene Alias	AML1T1, CBFA2T1, CDR, ETO, MGC2796, MTG8, MTG8b, ZMYND2
Gene Description	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
Omim ID	133435
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a putative zinc finger transcription factor and oncoprotein. In acute myeloid leukemia, especially in the M2 subtype, the t(8;21)(q22;q22) translocation is one of the most frequent karyotypic abnormalities. The translocation produces a chimeric gene made up of the 5'-region of the RUNX1 gene fused to the 3'-region of this gene. The chimeric protein is tho ught to associate with the nuclear corepressor/histone deacetylase complex to block hematopoiet ic differentiation. Several transcript variants encoding multiple isoforms have been found for this g ene. [provided by RefSeq
Other Designations	acute myelogenous leukemia 1 translocation 1 protein|acute myelogenous leukemia 1 translocati on 1, cyclin-D related|core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D -related|eight twenty one protein|myeloid translocation gene

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Pathway

- Acute myeloid leukemia
- Acute myeloid leukemia
- Chronic myeloid leukemia
- Pathways in cancer
- Pathways in cancer

Disease

- Arthritis
- Asthma
- Blast Crisis
- Cardiovascular Diseases
- Colitis
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Edema
- Genetic Predisposition to Disease
- Immune System Diseases
- Leukemia
- Liver Cirrhosis
- Lupus Erythematosus
- Myelodysplastic Syndromes
- Pancreatic cancer

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- Pancreatic Neoplasms
- Psoriasis
- Schizophrenia
- Tobacco Use Disorder

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