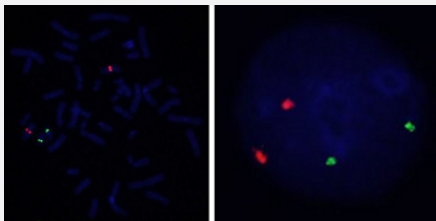


DDIT3/FUS DY Translocation FISH Probe

Catalog # FT0017 Size 200 uL, 100 uL

Applications



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 Technique. (Technology).
Probe 1	Name: DDIT3 Size: Approximately 670kb Fluorophore: Texas Red Location: 12q13.3
Probe 2	Name: FUS Size: Approximately 1,060kb Fluorophore: FITC Location: 16p11.2
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 left 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](#)

Gene Info — DDIT3

Entrez GeneID	1649
Gene Name	DDIT3
Gene Alias	CEBPZ, CHOP, CHOP10, GADD153, MGC4154
Gene Description	DNA-damage-inducible transcript 3
Omim ID	126337
Gene Ontology	Hyperlink
Other Designations	C/EBP homologous protein C/EBP zeta CCAAT/enhancer-binding protein homologous protein growth arrest- and DNA damage-inducible

Gene Info — FUS

Entrez GeneID [2521](#)

Gene Name FUS

Gene Alias CHOP, FUS-CHOP, FUS1, TLS, TLS/CHOP, hnRNP-P2

Gene Description fusion (involved in t(12;16) in malignant liposarcoma)

Omim ID [137070](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which have been implicated in cellular processes that include regulation of gene expression, maintenance of genomic integrity and mRNA/microRNA processing. Alternative splicing results in multiple transcript variants. Defects in this gene result in amyotrophic lateral sclerosis type 6. [provided by RefSeq]

Other Designations FUS-CHOP fusion protein|FUS-CHOP protein fusion|Fusion gene in myxoid liposarcoma|fus-like protein|fus/tls-chop oncogene|heterogeneous nuclear ribonucleoprotein P2|translocated in liposarcoma

Pathway

- [MAPK signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Amyotrophic Lateral Sclerosis](#)
- [Azoospermia](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)

- [Frontotemporal Dementia](#)
- [Frontotemporal Lobar Degeneration](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Infertility](#)
- [Kidney Failure](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Oligospermia](#)
- [Overweight](#)
- [Parkinsonian Disorders](#)
- [Prostate cancer](#)