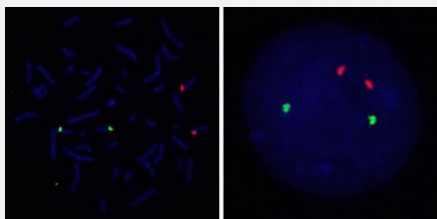


ETV6/NTRK3 DY Translocation FISH Probe

Catalog # FT0012 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: ETV6 Size: Approximately 910kb Fluorophore: Texas Red Location: 12p13
Probe 2	Name: NTRK3 Size: Approximately 1,200kb Fluorophore: FITC Location: 15q25
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 — ETV6

Entrez GeneID	2120
Gene Name	ETV6
Gene Alias	TEL, TEL/ABL
Gene Description	ets variant 6
Omim ID	131440 600618 601626
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an ETS family transcription factor. The product of this gene contains two functional domains: a N-terminal pointed (PNT) domain that is involved in protein-protein interactions with itself and other proteins, and a C-terminal DNA-binding domain. Gene knockout studies in mice suggest that it is required for hematopoiesis and maintenance of the developing vascular network. This gene is known to be involved in a large number of chromosomal rearrangements associated with leukemia and congenital fibrosarcoma. [provided by RefSeq]

Other Designations

TEL oncogene|TEL1 oncogene|ets variant gene 6 (TEL oncogene)

Gene Info — NTRK3

Entrez GeneID

[4916](#)

Gene Name

NTRK3

Gene Alias

TRKC, gp145(trkC)

Gene Description

neurotrophic tyrosine kinase, receptor, type 3

Omim ID

[191316](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in this gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers. [provided by RefSeq]

Other Designations

ETS related protein-neurotrophic receptor tyrosine kinase fusion protein|ETV6-NTRK3 fusion|NT-3 growth factor receptor|OTTHUMP00000192915|neurotrophin 3 receptor|tyrosine kinase receptor C

Pathway

- [Dorso-ventral axis formation](#)
- [Neurotrophin signaling pathway](#)

Disease

- [Anxiety Disorders](#)
- [Asperger Syndrome](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)

- [Cardiovascular Diseases](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Eating Disorders](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hirschsprung Disease](#)
- [Hypertension](#)
- [Leukemia](#)
- [Mental Disorders](#)
- [Mood Disorders](#)
- [Multiple System Atrophy](#)
- [Myelodysplastic Syndromes](#)
- [Neuropsychological Tests](#)
- [Obsessive-Compulsive Disorder](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Panic Disorder](#)
- [Parkinson disease](#)
- [Pattern Recognition](#)
- [Recognition \(Psychology\)](#)
- [Schizophrenia](#)
- [Social Perception](#)

- [Tobacco Use Disorder](#)
- [Tobacco Use Disorder](#)