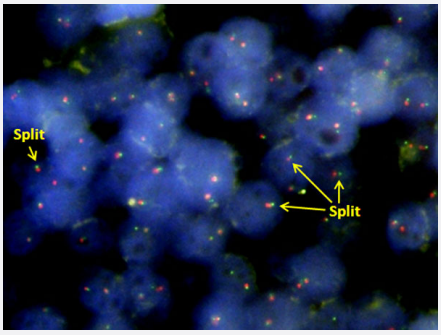
EWSR1 Split FISH Probe

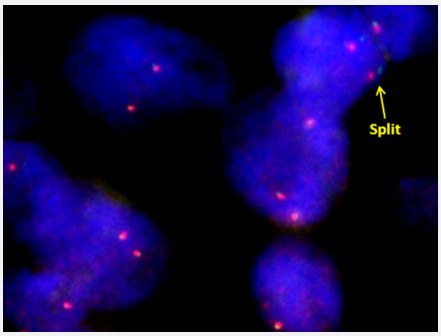
Catalog # FS0003 Size 100 uL, 200 uL

Applications



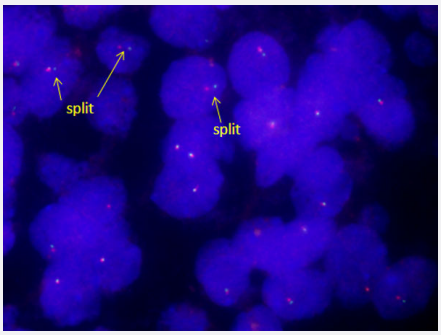
Fluorescent *In Situ* Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

Human Ewing's sarcoma (FFPE) stained with EWSR1 Split FISH Probe. Human Ewing's sarcoma showed EWSR1 gene split.



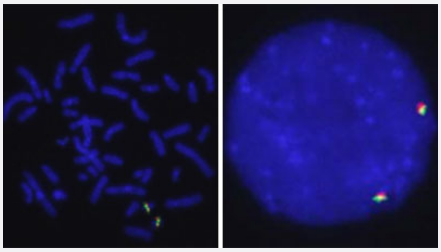
Fluorescent *In Situ* Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

Human breast cancer (FFPE) stained with EWSR1 Split FISH Probe. Human breast cancer showed EWSR1 gene split.



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

Human myoepithelioma (FFPE) stained with EWSR1 Split FISH Probe. Human myoepithelioma showed EWSR1 gene split.



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 split using Fluorescent In Situ Hybridization Technique. (Technology).
Probe 1	**Name:** EWSR1(Texas Red) **Size:** Approximately 590kb **Fluorophore:** Texas Red **Location:** 22q12
Probe 2	**Name:** EWSR1(FITC) **Size:** Approximately 610kb **Fluorophore:** FITC **Location:** 22q12
Probe Gap	The gap between two probes is approximately 40 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)

  Human Ewing's sarcoma (FFPE) stained with EWSR1 Split FISH Probe. Human Ewing's sarcoma showed EWSR1 gene split.

  Protocol Download

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

  Human breast cancer (FFPE) stained with EWSR1 Split FISH Probe. Human breast cancer showed EWSR1 gene split.

  Protocol Download

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

  Human myoepithelioma (FFPE) stained with EWSR1 Split FISH Probe. Human myoepithelioma showed EWSR1 gene split.

  Protocol Download

Gene Info — EWSR1

Entrez GeneID	2130
Gene Name	EWSR1
Gene Alias	EWS
Gene Description	Ewing sarcoma breakpoint region 1
Omim ID	133450

Gene Ontology	Hyperlink
Gene Summary	This gene encodes a multifunctional protein that is involved in various cellular processes, includin g gene expression, cell signaling, and RNA processing and transport. The protein includes an N-t erminal transcriptional activation domain and a C-terminal RNA-binding domain. Chromosomal tr anslocations between this gene and various genes encoding transcription factors result in the pro duction of chimeric proteins that are involved in tumorigenesis. These chimeric proteins usually co nsist of the N-terminal transcriptional activation domain of this protein fused to the C-terminal DN A-binding domain of the transcription factor protein. Mutations in this gene, specifically a t(11;22)(q24;q12) translocation, are known to cause Ewing sarcoma as well as neuroectodermal and vario us other tumors. Alternative splicing of this gene results in multiple transcript variants. Related pse udogenes have been identified on chromosomes 1 and 14. [provided by RefSeq
Other Designations	Ewings sarcoma EWS-Fli1 (type 1) oncogene|bK984G1.4 (Ewing sarcoma breakpoint region 1 p rotein)

Publication Reference

- Detection of SYT and EWS gene rearrangements by dual-color break-apart CISH in liquid-based cytology samples of synovial sarcoma and Ewing sarcoma/primitive neuroectodermal tumor.

  Kumagai A, Motoi T, Tsuji K, Imamura T, Fukusato T.

  American Journal of Clinical Pathology 2010 Aug; 134(2):323.

  Application: FISH, Human, Ewing sarcoma