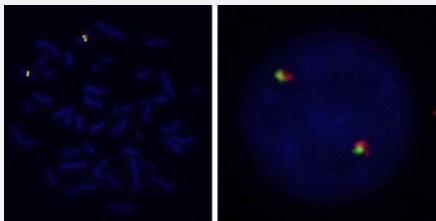


# RELA Split FISH Probe

Catalog # FS0057      Size 200 uL, 100 uL

## Applications



Hybridization position of the probes on the chromosome.

Hybridization position of the probes on the chromosome.

□

## Specification

|                            |                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Labeled FISH probes for identification of gene split using Fluorescent In Situ Hybridization Technique. ( <a href="#">Technology</a> ). |
| <b>Probe 1</b>             | <b>Name:</b> RELA<br><b>Size:</b> Approximately 400kb<br><b>Fluorophore:</b> TexRed<br><b>Location:</b> 11q13                           |
| <b>Probe 2</b>             | <b>Name:</b> RELA<br><b>Size:</b> Approximately 790kb<br><b>Fluorophore:</b> FITC<br><b>Location:</b> 11q13                             |
| <b>Origin</b>              | Human                                                                                                                                   |

|                         |                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source                  | Genomic DNA                                                                                                                                                                                                                   |
| Reactivity              | Human                                                                                                                                                                                                                         |
| Form                    | Liquid                                                                                                                                                                                                                        |
| Notice                  | We <b>strongly recommend</b> the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: <a href="#">KA2375</a> or <a href="#">KA2691</a> ) 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.<br>Hybridization position of the probes on the chromosome.                                                                                                            |

## Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

## Gene Info — RELA

|                  |                                                              |
|------------------|--------------------------------------------------------------|
| Entrez GeneID    | <a href="#">5970</a>                                         |
| Gene Name        | RELA                                                         |
| Gene Alias       | MGC131774, NFKB3, p65                                        |
| Gene Description | v-rel reticuloendotheliosis viral oncogene homolog A (avian) |
| Omim ID          | <a href="#">164014</a>                                       |
| Gene Ontology    | <a href="#">Hyperlink</a>                                    |

## Gene Summary

NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA, or RELB (MIM 604758) to form the NFKB complex. The p50 (NFKB1)/p65 (RELA) heterodimer is the most abundant form of NFKB. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008 or NFKBIB, MIM 604495), which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB, MIM 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NFKB complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).[supplied by OMIM]

## Other Designations

nuclear factor of kappa light polypeptide gene enhancer in B-cells 3|v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65))|v-rel reticuloendotheliosis viral oncogene homolog

## Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

## Disease

- [Arthritis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Liver Cirrhosis](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Testicular Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)