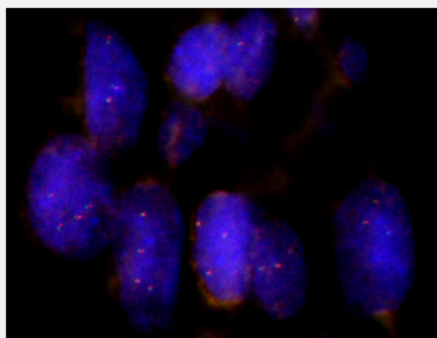


# PDGFB Split FISH Probe

Catalog # FS0009

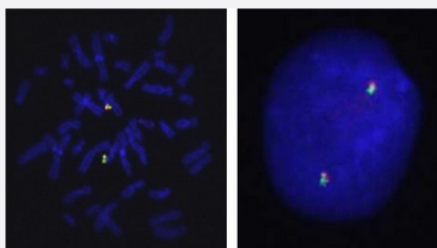
Size 200 uL, 100 uL

## Applications



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

Huma lung, adenosquamous cell carcinoma (FFPE) stained with PDGFB Split FISH Probe. Human lung, adenosquamous cell carcinoma showed PDGFB 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](#)).

<b>Probe 1</b>	<b>Name:</b> PDGFB(Texas Red) <b>Size:</b> Approximately 470kb <b>Fluorophore:</b> Texas Red <b>Location:</b> 22q13.1
<b>Probe 2</b>	<b>Name:</b> PDGFB(FITC) <b>Size:</b> Approximately 610kb <b>Fluorophore:</b> FITC <b>Location:</b> 22q13.1
<b>Probe Gap</b>	The gap between two probes is approximately 50 kb
<b>Origin</b>	Human
<b>Source</b>	Genomic DNA
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Notice</b>	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.
<b>Regulation Status</b>	For research use only (RUO)
<b>Quality Control Testing</b>	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.
<b>Supplied Product</b>	DAPI Counterstain (1500 ng/mL ) 125 uL for each 100 uL FISH Probe
<b>Storage Instruction</b>	Store at 4°C in the dark.
<b>Note</b>	<p>Hybridization position of the probes on the chromosome.</p> <p>Hybridization position of the probes on the chromosome.</p>

## Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

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

Human lung, adenosquamous cell carcinoma (FFPE) stained with PDGFB Split FISH Probe. Human lung, adenosquamous cell carcinoma showed PDGFB gene split.

[Protocol Download](#)

## Gene Info — PDGFB

Entrez GeneID	<a href="#">5155</a>
Gene Name	PDGFB
Gene Alias	FLJ12858, PDGF2, SIS, SSV, c-sis
Gene Description	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)
Omim ID	<a href="#">190040</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<p>The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq]</p>
Other Designations	PDGF, B chain Platelet-derived growth factor, beta polypeptide (oncogene SIS) becaplermin oncogene SIS platelet-derived growth factor 2 platelet-derived growth factor beta platelet-derived growth factor, B chain v-sis platelet-derived growth factor beta p

## Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)

- [Renal cell carcinoma](#)

## Disease

- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Head and Neck Neoplasms](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Recurrence](#)