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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

PDGFRA/FIP1L1 3-Color Rearrangement FISH Probe

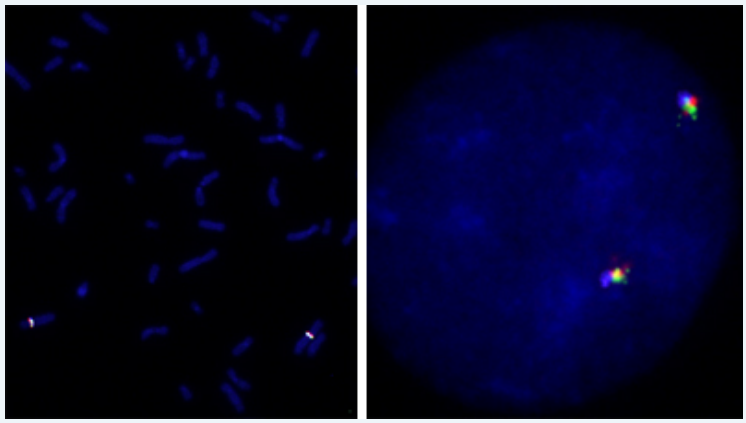
Catalog # : FT0008 **規格 :** [200 uL]

List All

Specification

Product Description: Labeled FISH probes for identification of gene translocation using Fluorescent In Situ Hybridization Technique. (Technology)

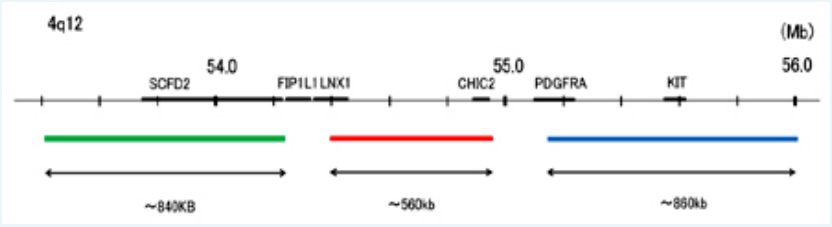
Quality Control Testing: Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The left image is chromosomes at metaphase, and the right image is an interphase nucleus.



Supplied Product: DAPI Counterstain (150 ng/mL) 250 uL

Storage Instruction: Store at 4°C in the dark.

Note: Hybridization position of the probes on the chromosome.



Probe 1:
Size: SCFD2 Approximately 840kb
Fluorophore: FITC
Location: 4q12

Probe 2:
Size: LNX Approximately 560kb
Fluorophore: Texas Red
Location: 4q12

Probe 3:
Size: PDGFRA/KIT Approximately 860kb
Fluorophore: DEAC
Location: 4q12

Origin: Human

Application Image

Fluorescent In Situ Hybridization (Cell)

Source:	Genomic DNA
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)

Applications

Fluorescent In Situ Hybridization (Cell)

Protocol Download

PDGFRA FIP1L1

Gene Information

Entrez GeneID:	5156
Gene Name:	PDGFRA
Gene Alias:	CD140A,MGC74795,PDGFR2,Rhe-PDGFRA
Gene Description:	platelet-derived growth factor receptor, alpha polypeptide
Omim ID:	173490, 606764, 607685
Gene Ontology:	Hyperlink
Gene Summary:	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies in knockout mice, where homozygosity is lethal, indicate that the alpha form of the platelet-derived growth factor receptor is particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes. [provided by RefSeq
Other Designations:	FIP1L1/PDGFRA fusion protein,platelet-derived growth factor receptor alpha,rearranged-in-hypereosinophilia-platelet derived growth factor receptor alpha fusion protein

Gene Information

Entrez GeneID:	81608
Gene Name:	FIP1L1
Gene Alias:	DKFZp586K0717,FLJ33619,Rhe
Gene Description:	FIP1 like 1 (S. cerevisiae)
Omim ID:	607686
Gene Ontology:	Hyperlink
Gene Summary:	This gene encodes a subunit of the CPSF (cleavage and polyadenylation specificity factor) complex that polyadenylates the 3' end of mRNA precursors. This gene, the homolog of yeast Fip1 (factor interacting with PAP), binds to U-rich sequences of pre-mRNA and

	stimulates poly(A) polymerase activity. Its N-terminus contains a PAP-binding site and its C-terminus an RNA-binding domain. An interstitial chromosomal deletion on 4q12 creates an in-frame fusion of human genes FIP1L1 and PDGFRA (platelet-derived growth factor receptor, alpha). The FIP1L1-PDGFRA fusion gene encodes a constitutively activated tyrosine kinase that joins the first 233 amino acids of FIP1L1 to the last 523 amino acids of PDGFRA. This gene fusion and chromosomal deletion is the cause of some forms of idiopathic hypereosinophilic syndrome (HES). This syndrome, recently reclassified as chronic eosinophilic leukemia (CEL), is responsive to treatment with tyrosine kinase inhibitors. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq
Other Designations:	FIP1 like 1,rearranged in hypereosinophilia