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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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p16/p53/SMAD4 FISH Probe

Catalog # : FG0227

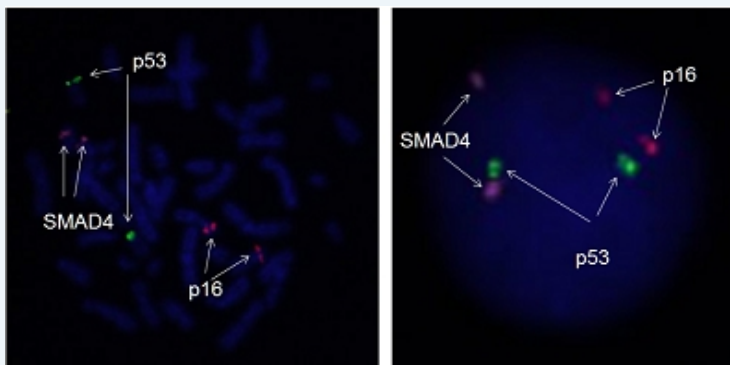
規格 : [200 uL]

List All

Specification

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

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



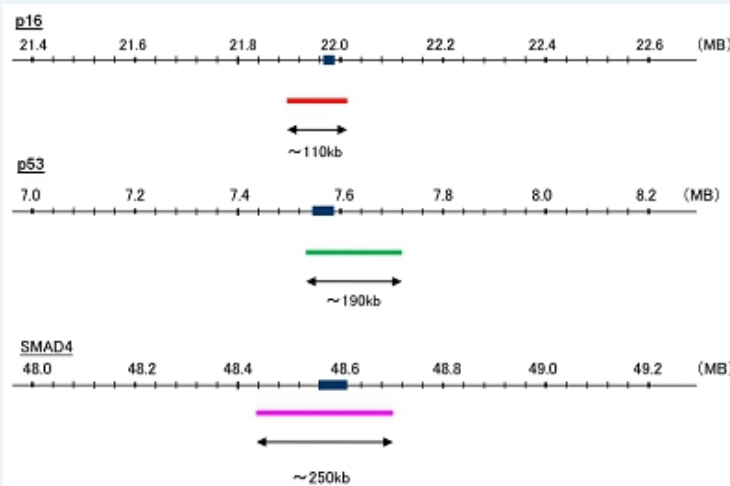
Application Image

Fluorescent In Situ Hybridization (Cell)

Supplied Product: DAPI Counterstain (1500 ng/mL) 250 uL

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

Note: Hybridization position of the probes on the chromosome.



Probe 2: p53
Size: Approximately 190kb
Fluorophore: FITC
Location: 17p13.1

Probe 1: p16
Size: Approximately 110kb
Fluorophore: TexRed
Location: 9p21

Probe 3: SMAD4
Size: Approximately 250kb
Fluorophore: Cy5
Location: 18q21.2

Origin: Human

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](#)

[CDKN2A](#) [SMAD4](#) [TP53](#)

Gene Information

Entrez GeneID: [1029](#)

Gene Name: CDKN2A

Gene Alias: ARF,CDK4I,CDKN2,CMM2,INK4,INK4a,MLM,MTS1,TP16,p14,p14ARF,p16,p16INK4,p16INK4a,p19

Gene Description: cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)

Omim ID: [151623](#), [155601](#), [155755](#), [600160](#), [606719](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, MDM1, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene. [provided by RefSeq]

Other Designations: CDK4 inhibitor p16-INK4,OTTHUMP00000021147,OTTHUMP00000021148,cell cycle negative regulator beta,cyclin-dependent kinase inhibitor 2A,cyclin-dependent kinase inhibitor p16,multiple tumor suppressor 1

Gene Information

Entrez GeneID: [7157](#)

Gene Name: TP53

Gene Alias: FLJ92943,LFS1,TRP53,p53

Gene Description: tumor protein p53

Omim ID: [114480](#), [114500](#), [114550](#), [151623](#), [161550](#), [191170](#), [202300](#), [260350](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome. Multiple p53 variants due to alternative promoters and multiple alternative splicing have been found. These variants encode distinct isoforms, which can regulate p53 transcriptional activity. [provided by RefSeq]

Other Designations: p53 antigen,p53 transformation suppressor,p53 tumor suppressor,phosphoprotein p53,transformation-related protein 53

Gene Information

Entrez GeneID: [4089](#)

Gene Name: SMAD4

Gene Alias: DPC4,JIP,MADH4

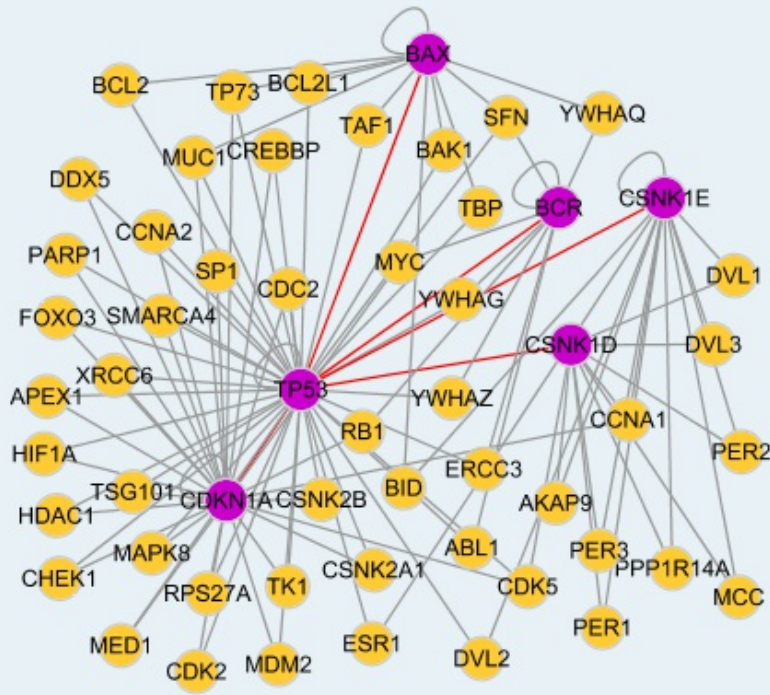
Gene Description: SMAD family member 4

Omim ID: [174900](#), [175050](#), [600993](#)

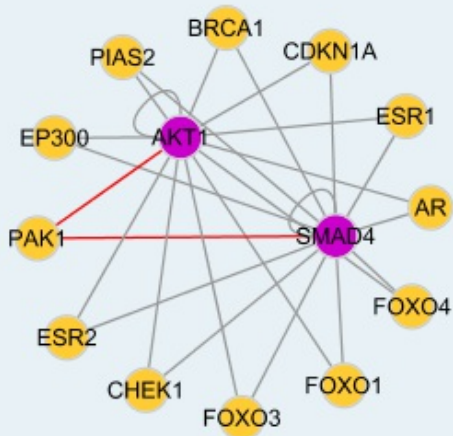
Gene Ontology: [Hyperlink](#)

Other Designations: MAD, mothers against decapentaplegic homolog 4,OTTHUMP00000163548,SMAD, mothers against DPP homolog 4,deleted in pancreatic carcinoma locus 4,mothers against decapentaplegic homolog 4,mothers against decapentaplegic, Drosophila, homolog of, 4

Interactome 1



Interactome 2



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