SZABO SCANDIC

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Produktinformation

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

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ERBB2/TOP2A/CEN17q FISH Probe

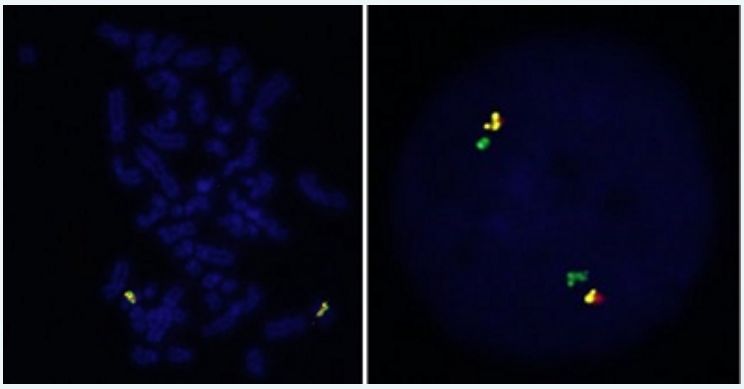
Catalog # : FG0209 **Size :** [200 uL]

List All

Specification

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

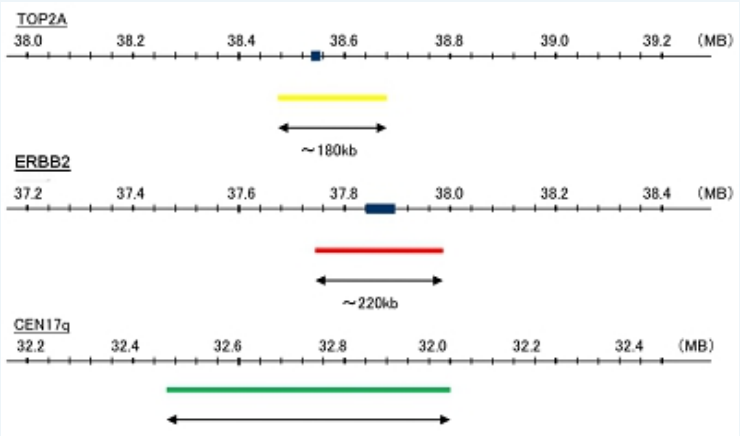
Quality Control Testing: Representative images of normal human cell (lymphocyte) stain with the triple color FISH probe. The left image is chromosomes at metaphase, and the right image is an interphase nucleus.



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: ERBB2(HER2)
Size: Approximately 220kb
Fluorophore: TexRed
Location: 17q12

Probe 1: TOP2A
Size: Approximately 180kb
Fluorophore: R6G
Location: 17q21

Probe 3: CEN17q

Application Image

Fluorescent In Situ Hybridization (Cell)

Size:	Approximately 540kb
Fluorophore:	FITC
Location:	17q11.2
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

ERBB2 TOP2A

Gene Information

Entrez GeneID:	2064
Gene Name:	ERBB2
Gene Alias:	CD340,HER-2,HER-2/neu,HER2,NEU,NGL,TKR1
Gene Description:	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)
Omim ID:	137215, 137800, 164870, 211980
Gene Ontology:	Hyperlink
Gene Summary:	This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq
Other Designations:	c-erb B2/neu protein,erbB-2,herstatin,neuroblastoma/glioblastoma derived oncogene homolog,v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog)

Gene Information

Entrez GeneID:	7153
Gene Name:	TOP2A
Gene Alias:	TOP2,TP2A
Gene	topoisomerase (DNA) II alpha 170kDa

Description:

Omim ID: 126430

Gene Ontology: Hyperlink

Gene Summary: This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromsome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. [provided by RefSeq

Other Designations: DNA topoisomerase II, 170 kD,DNA topoisomerase II, alpha isozyme,topoisomerase (DNA) II alpha (170kD)

Interactome