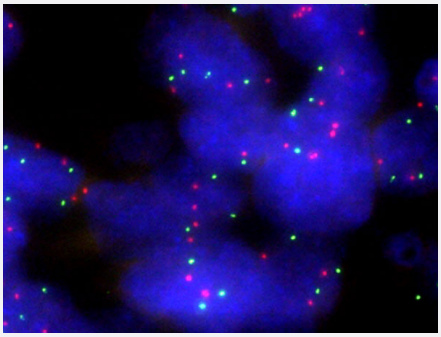
Sm Size

SOD2/CEN6p FISH Probe

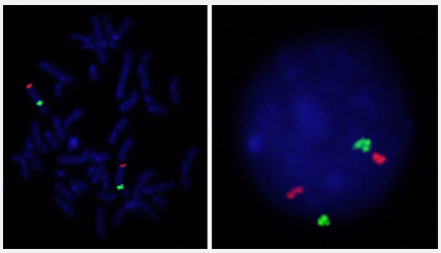
Catalog # FG0129 Size 200 uL, 100 uL

Applications



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

human cervix cancer (FFPE) stained with SOD2/CEN6p FISH Probe . human cervix cancer showed no SOD2 amplification.



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 amplification using Fluorescent In Situ Hybridization T echnique. (Technology).

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Probe 1	**Name:** SOD2 **Size:** Approximately 180kb **Fluorophore:** Texas Red **Location:** 6q25.3
Probe 2	**Name:** CEN6p **Size:** Approximately 660kb **Fluorophore:** FITC **Location:** 6p12.1
Probe Gap	The gap between two probes is approximately 105,000 kb
Origin	Human
Source	Genomic DNA
Reactivity	Human
Form	Liquid
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)
Quality Control Testing	Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The l eft image is chromosomes at metaphase, and the right image is an interphase nucleus.
Supplied Products	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. Hybridization position of the probes on the chromosome.
Self-Attestation	Abnova self-attests to comply with the U.S. Framework for Nucleic Acid Synthesis Screening

Applications

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

  human cervix cancer (FFPE) stained with SOD2/CEN6p FISH Probe . human cervix cancer showed no SOD2 amplification.

  Protocol Download

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

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Gene Info — SOD2

Entrez GeneID	6648
Gene Name	SOD2
Gene Alias	IPO-B, MNSOD, Mn-SOD
Gene Description	superoxide dismutase 2, mitochondrial
Omim ID	147460
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq
Other Designations	Mn superoxide dismutase|OTTHUMP00000017530|OTTHUMP00000017531|indophenoloxidase B|manganese superoxide dismutase|manganese-containing superoxide dismutase|mangano-superoxide dismutase

Disease

- Acute Disease
- Adenocarcinoma
- Akathisia
- Albuminuria
- Alcoholism
- Alzheimer disease
- Amphetamine-Related Disorders
- Angina Pectoris
- Arsenic Poisoning
- Arthritis

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- Asbestosis
- Asthma
- Ataxia telangiectasia
- Atherosclerosis
- Barrett Esophagus
- Behcet Syndrome
- Biliary Tract Neoplasms
- Bipolar Disorder
- Birth Weight
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Calcinosis
- Carcinoma
- Cardiomyopathies
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cervical Intraepithelial Neoplasia
- Choroid Diseases
- Chromosome Aberrations
- Chronic Disease
- Cocarcinogenesis
- Cognition
- Colitis
- Colorectal Neoplasms

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- Coronary Artery Disease
- Coronary Disease
- Dermatitis
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Disease Progression
- DNA Damage
- Drug Toxicity
- Drug-Induced Liver Injury
- Dyskinesia
- Edema
- Esophageal Neoplasms
- Esophagitis
- Exfoliation Syndrome
- Fatty Liver
- Fibrosis
- Genetic Predisposition to Disease
- Glaucoma
- Glioblastoma
- Glioma
- Glomerulonephritis
- Glucose Intolerance

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- Head and Neck Neoplasms
- Hearing Loss
- Helicobacter Infections
- Hemochromatosis
- Hepatitis
- Hepatitis C
- Hereditary hemochromatosis
- Hypercholesterolemia
- Hypertension
- Infertility
- Inflammation
- Insulin Resistance
- Iron Overload
- Kidney Failure
- Laryngeal Neoplasms
- Leber hereditary optic neuropathy
- Leukemia
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Macular Degeneration
- Macular Edema
- Malnutrition

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- Meningeal Neoplasms
- Meningioma
- Mesothelioma
- Mood Disorders
- Mouth Neoplasms
- Movement Disorders
- Multiple Chemical Sensitivity
- Myocardial Infarction
- Neoplasm Invasiveness
- Neoplasms
- Obesity
- Occupational Diseases
- Optic Atrophy
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Papillomavirus Infections
- Parkinson disease
- Pelvic Pain
- Pharyngeal Neoplasms
- Pleural Neoplasms
- Pneumoconiosis
- Poisoning
- Postoperative Complications

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- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Prostate cancer
- Prostatic Neoplasms
- Prostatitis
- Pseudoxanthoma Elasticum
- Psychiatric Status Rating Scales
- Psychoses
- Pulmonary Disease
- Radiation Injuries
- Raynaud Disease
- Respiratory Insufficiency
- Schizophrenia
- Schizophrenic Psychology
- Sepsis
- Skin Neoplasms
- Spondylitis
- Stomach Neoplasms
- Stroke
- Substance-Related Disorders
- Syndrome
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Urolithiasis

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- Uterine Cervical Neoplasms
- Uveitis
- Varicocele
- Weight Gain
- Werner syndrome

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