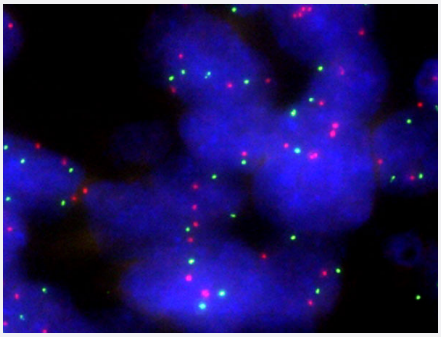
Sm Size

# SOD2/CEN6p FISH Probe

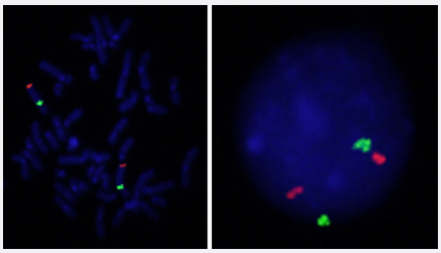
Catalog # FG0129 Size 200 uL, 100 uL

## 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). |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Probe 1** | **Name:** SOD2<br>**Size:** Approximately 180kb<br>**Fluorophore:** Texas Red<br>**Location:** 6q25.3 |
| **Probe 2** | **Name:** CEN6p<br>**Size:** Approximately 660kb<br>**Fluorophore:** FITC<br>**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.<br>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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

## 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.