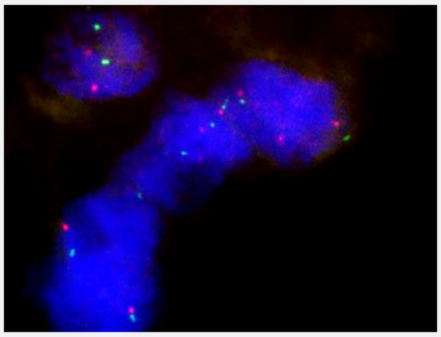
SQSTM1/CEN5q FISH Probe

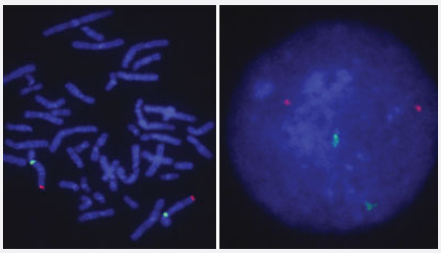
Catalog # FG0064 Size 200 uL, 100 uL

Applications



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

Human breast cancer (FFPE) stained with SQSTM1/CEN5q FISH Probe. Human breast cancer showed no SQSTM1 gene 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).

Probe 1	**Name:** SQSTM1 **Size:** Approximately 350kb **Fluorophore:** Texas Red **Location:** 5q35.3
Probe 2	**Name:** CEN5q **Size:** Approximately 700kb **Fluorophore:** FITC **Location:** 5q11.2
Probe Gap	The gap between two probes is approximately 126,300 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 Product	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:

Applications

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

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

  Human breast cancer (FFPE) stained with SQSTM1/CEN5q FISH Probe. Human breast cancer showed no SQSTM1 gene amplification

  Protocol Download

Gene Info — SQSTM1

Entrez GeneID	8878
Gene Name	SQSTM1
Gene Alias	A170, OSIL, PDB3, ZIP3, p60, p62, p62B
Gene Description	sequestosome 1
Omim ID	601530 602080
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuc lear factor kappa-B (NF-kB) signaling pathway. The protein functions as a scaffolding/adaptor pro tein in concert with TNF receptor-associated factor 6 to mediate activation of NF-kB in response t o upstream signals. Alternatively spliced transcript variants encoding either the same or different i soforms have been identified for this gene. Mutations in this gene result in sporadic and familial P aget disease of bone. [provided by RefSeq
Other Designations	EBI3-associated protein p60|Paget disease of bone 3|oxidative stress induced like|phosphotyros ine independent ligand for the Lck SH2 domain p62|ubiquitin-binding protein p62

Disease

- Genetic Predisposition to Disease
- Multiple System Atrophy
- Osteitis Deformans
- Tobacco Use Disorder