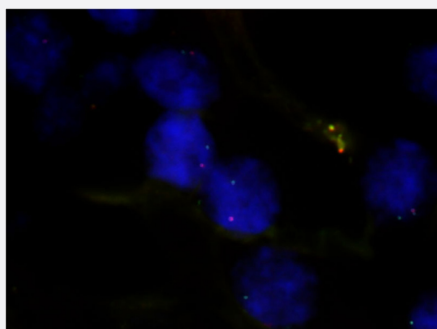


VHL/CEN3q FISH Probe

Catalog # FG0029

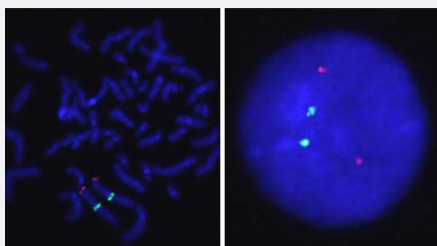
Size 100 uL, 200 uL

Applications



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

Human renal cell carcinoma (FFPE) stained with VHL/CEN3q FISH Probe. Human renal cell carcinoma showed no VHL 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 Technique. ([Technology](#)).

Probe 1	Name: VHL Size: Approximately 170kb Fluorophore: Texas Red Location: 3p26-p25
Probe 2	Name: CEN3q Size: Approximately 500kb Fluorophore: FITC Location: 3q12.1
Probe Gap	The gap between two probes is approximately 85,100 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 left 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 renal cell carcinoma (FFPE) stained with VHL/CEN3q FISH Probe. Human renal cell carcinoma showed no VHL gene amplification.

[Protocol Download](#)

Gene Info — VHL

Entrez GeneID [7428](#)

Gene Name VHL

Gene Alias HRCA1, RCA1, VHL1

Gene Description von Hippel-Lindau tumor suppressor

Omim ID [144700](#) [171300](#) [193300](#) [263400](#) [608537](#)

Gene Ontology [Hyperlink](#)

Gene Summary Von Hippel-Lindau syndrome (VHL) is a dominantly inherited familial cancer syndrome predisposing to a variety of malignant and benign tumors. A germline mutation of this gene is the basis of familial inheritance of VHL syndrome. The protein encoded by this gene is a component of the protein complex that includes elongin B, elongin C, and cullin-2, and possesses ubiquitin ligase E3 activity. This protein is involved in the ubiquitination and degradation of hypoxia-inducible-factor (HIF), which is a transcription factor that plays a central role in the regulation of gene expression by oxygen. RNA polymerase II subunit POLR2G/RPB7 is also reported to be a target of this protein. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

Other Designations elongin binding protein

Pathway

- [Pathways in cancer](#)
- [Renal cell carcinoma](#)
- [Ubiquitin mediated proteolysis](#)

Disease

- [Adenocarcinoma](#)
- [Adrenal Gland Neoplasms](#)
- [Altitude Sickness](#)
- [Anoxia](#)
- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Central Nervous System Neoplasms](#)
- [Cerebellar Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glomus Tumor](#)
- [Head and Neck Neoplasms](#)
- [Hemangioblastoma](#)
- [Hemangioma](#)
- [Hippel-Lindau Disease](#)
- [Hypertension](#)
- [Kidney Neoplasms](#)
- [Lymphoproliferative Disorders](#)
- [Multiple endocrine neoplasia](#)
- [Multiple Endocrine Neoplasia Type 2a](#)
- [Myelodysplastic Syndromes](#)
- [Neoplasms](#)
- [Neurofibromatosis](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Paranglioma](#)
- [Pheochromocytoma](#)

- [Polycythemia](#)
- [Retinal Neoplasms](#)
- [Syndrome](#)
- [Thrombosis](#)
- [Vascular Diseases](#)
- [von Hippel-Lindau Disease](#)
- [Von Hippel-Lindau syndrome](#)