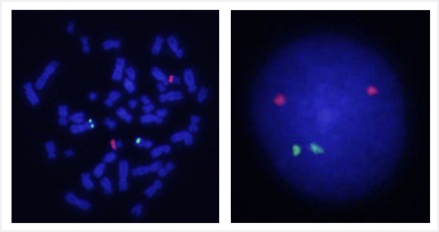
Sm Size

PRKCA/SLC44A1 DY FISH Probe

Catalog # FT0053 Size 200 uL, 100 uL

Applications



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.

Hybridization position of the probes on the chromosome.

Hybridization position of the probes on the chromosome.

Specification

Probe 1	**Name:** PRKCA **Size:** Approximately 1000kb **Fluorophore:** Texas Red **Location:** 17q24.2
Probe 2	**Name:** SLC44A1 **Size:** Approximately 1200kb **Fluorophore:** FITC **Location:** 9q31.3-q31.2
Regulation Status	For research use only (RUO)
Source	Genomic DNA

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Origin	Human
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.
Self-Attestation	Abnova self-attests to comply with the U.S. Framework for Nucleic Acid Synthesis Screening
Product Description	Labeled FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization T echnique. (Technology).
Reactivity	Human
Form	Liquid
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. 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.
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 (Formalin/PFA-fixed paraffin-embedded sections)

  Protocol Download

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

Gene Info — PRKCA

Entrez GeneID	5578
Gene Name	PRKCA
Gene Alias	AAG6, MGC129900, MGC129901, PKC-alpha, PKCA, PRKACA
Gene Description	protein kinase C, alpha

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Omim ID	176960
Gene Ontology	Hyperlink
Gene Summary	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be a ctivated by calcium and the second messenger diacylglycerol. PKC family members phosphorylat e a wide variety of protein targets and are known to be involved in diverse cellular signaling pathw ays. PKC family members also serve as major receptors for phorbol esters, a class of tumor pro moters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This k inase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice sugge st that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes. [provided by RefSeq
Other Designations	aging-associated gene 6|protein kinase C alpha type

Gene Info — SLC44A1

Entrez GeneID	23446
Gene Name	SLC44A1
Gene Alias	CD92, CDW92, CHTL1, CTL1, RP11-287A8.1
Gene Description	solute carrier family 44, member 1
Omim ID	606105
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	CD92 protein|CDW92 antigen|OTTHUMP00000021838|choline transporter-like protein 1

Pathway

- Calcium signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion

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- Gap junction
- Glioma
- GnRH signaling pathway
- Leukocyte transendothelial migration
- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Natural killer cell mediated cytotoxicity
- Non-small cell lung cancer
- Pathogenic Escherichia coli infection - EHEC
- Pathways in cancer
- Phosphatidylinositol signaling system
- Tight junction
- Vascular smooth muscle contraction
- VEGF signaling pathway
- Vibrio cholerae infection
- Wnt signaling pathway

Disease

- Adenocarcinoma
- Asthma
- Breast cancer
- Breast Neoplasms
- Esophageal Neoplasms
- Genetic Predisposition to Disease

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- Liver Cirrhosis
- Mental Disorders
- Multiple Sclerosis
- Obesity
- Pancreatic Neoplasms
- Premature Birth
- Schizophrenia
- Tobacco Use Disorder
- Vaginosis

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