

PLCG1 FISH Probe

Catalog # FA0432 Size 200 uL

Specification

Product Description	Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization Technique. (Technology).
Origin	Human
Source	Genomic DNA
Reactivity	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.
Regulation Status	For research use only (RUO)
Supplied Product	DAPI Counterstain (1500 ng/mL) 250 uL
Storage Instruction	Store at 4°C in the dark.

Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

Gene Info — PLCG1

Entrez GeneID	5335
Gene Name	PLCG1
Gene Alias	PLC-II, PLC1, PLC148, PLCgamma1
Gene Description	phospholipase C, gamma 1

Omim ID [172420](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

1-phosphatidyl-D-myo-inositol-4,5-bisphosphate|1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma 1|OTTHUMP00000031787|OTTHUMP00000178982|PLC-gamma-1|inositol trisphosphohydrolase|monophosphatidylinositol phosphodiesterase|phosphatidylinositol

Pathway

- [Calcium signaling pathway](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Glioma](#)
- [Inositol phosphate metabolism](#)
- [Leukocyte transendothelial migration](#)
- [Metabolic pathways](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [T cell receptor signaling pathway](#)

- [VEGF signaling pathway](#)
- [Vibrio cholerae infection](#)

Disease

- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Kidney Failure](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)