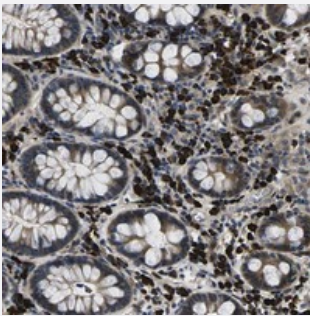


PLCE1 polyclonal antibody

Catalog # PAB20820 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human colon with PLCE1 polyclonal antibody (Cat # PAB20820) shows strong cytoplasmic positivity in plasma cells.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant PLCE1.
Immunogen	Recombinant protein corresponding to amino acids of human PLCE1.
Sequence	MGISPLGNQSVIIETGRAHPDSRRVVFHFHYEVDRRMSDTFCTLSENILDDCGNCVPLPGGEEK QKKNYVAYTCKLMELAKNCDNKNEQLQCDHCDTLNDKYFCFEGSCEKVD MVYSGDSFCRKDFT DSQAAKT
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human colon with PLCE1 polyclonal antibody (Cat # PAB20820) shows strong cytoplasmic positivity in plasma cells.

Gene Info — PLCE1

Entrez GeneID[51196](#)**Protein Accession#**[Q9P212](#)**Gene Name**

PLCE1

Gene Alias

FLJ23659, KIAA1516, MGC167842, NPHS3, PLCE

Gene Description

phospholipase C, epsilon 1

Omim ID[608414](#) [610725](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a phospholipase enzyme that catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate to generate two second messengers: inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG). These second messengers subsequently regulate various processes affecting cell growth, differentiation, and gene expression. This enzyme is regulated by small monomeric GTPases of the Ras and Rho families and by heterotrimeric G proteins. In addition to its phospholipase C catalytic activity, this enzyme has an N-terminal domain with guanine nucleotide exchange (GEF) activity. Mutations in this gene cause early-onset nephrotic syndrome; characterized by proteinuria, edema, and diffuse mesangial sclerosis or focal and segmental glomerulosclerosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms

Other Designations

nephrosis type 3|pancreas-enriched phospholipase C

Publication Reference

- [Functional role of PLCE1 intronic insertion variant associated with susceptibility to esophageal squamous-cell carcinoma.](#)

Wei L, Shao M, Zhao Y, Zheng J, Chu J, Chang J, Cheng X, Qionghua C, Peng L, Luo Y, Tan W, Tan W, Lin D, Wu C.
Carcinogenesis 2018 Feb; 39(2):191.

Application: WB-Tr, WB-Ti, Human , BxPC-3, H1299, H460, KYSE30, KYSE150, RKO cells, normal esophageal tissues

Pathway

- [Calcium signaling pathway](#)
- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Carcinoma](#)
- [Disease Progression](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulosclerosis](#)
- [HIV Infections](#)
- [Kidney Failure](#)
- [Narcolepsy](#)
- [Nephrotic Syndrome](#)
- [Stomach Neoplasms](#)
- [Tobacco Use Disorder](#)