

PLCE1 rabbit pAb

Cat No.: ES10735

For research use only

Overview

Product Name PLCE1 rabbit pAb

Host species Rabbit
Applications IHC;IF

Species Cross-Reactivity Human;Rat;Mouse; **Recommended dilutions** IHC-p 1:50-300

Immunogen Synthesized peptide derived from part region of

human protein

Specificity PLCE1 Polyclonal Antibody detects endogenous

levels of protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name 1-phosphatidylinositol 4,5-bisphosphate

phosphodiesterase epsilon-1 (EC 3.1.4.11) (Pancreas-enriched phospholipase C)

(Phosphoinositide phospholipase C-epsilon-1)

(Phospholipase C-epsilon-1) (PLC-epsi

Gene Name PLCE1 KIAA1516 PLCE PPLC

Cellular localization Cytoplasm, cytosol. Cell membrane. Golgi apparatus

membrane. Cell projection, lamellipodium.

Recruited to plasma membrane by activated HRAS and RAP2. Recruited to perinuclear membrane by activated RAP1A. Isoform 1 and isoform 2 associates

with Golgi memb

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 253kD
Human Gene ID 51196
Human Swiss-Prot Number Q9P212

Alternative Names



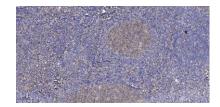
+86-27-59760950 ELKbio@ELKbiotech.com



Background

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.[provided by RefSeq, Sep 2009],

Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



+86-27-59760950

