

## Anti-PLCE1 antibody



<b>Description</b>	Unconjugated Rabbit polyclonal to PLCE1
<b>Model</b>	STJ191893
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Applications</b>	IHC
<b>Gene ID</b>	<a href="#">51196</a>
<b>Gene Symbol</b>	<a href="#">PLCE1</a>
<b>Dilution range</b>	IHC-p 1:50-300
<b>Specificity</b>	PLCE1 Polyclonal Antibody detects endogenous levels of protein.
<b>Tissue Specificity</b>	Widely expressed. Isoform 1 is broadly expressed and only absent in peripheral blood leukocytes. Isoform 2 is specifically expressed in placenta, lung and spleen.
<b>Purification</b>	PLCE1 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase epsilon-1 Pancreas-enriched phospholipase C Phosphoinositide phospholipase C-epsilon-1 Phospholipase C-epsilon-1 PLC-epsilon-1
<b>Molecular Weight</b>	253 kDa
<b>Clonality</b>	Polyclonal

<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:17175OMIM:608414</a>
<b>Alternative Names</b>	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase epsilon-1 Pancreas-enriched phospholipase C Phosphoinositide phospholipase C-epsilon-1 Phospholipase C-epsilon-1 PLC-epsilon-1
<b>Function</b>	The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. PLCE1 is a bifunctional enzyme which also regulates small GTPases of the Ras superfamily through its Ras guanine-exchange factor (RasGEF) activity. As an effector of heterotrimeric and small G-protein, it may play a role in cell survival, cell growth, actin organization and T-cell activation.
<b>Sequence and Domain Family</b>	The Ras-associating domain 1 is degenerated and may not bind HRAS. The Ras-associating domain 2 mediates interaction with GTP-bound HRAS, RAP1A, RAP2A and RAP2B and recruitment of HRAS to the cell membrane.; The Ras-GEF domain has a GEF activity towards HRAS and RAP1A. Mediates activation of the mitogen-activated protein kinase pathway.
<b>Cellular Localization</b>	Cytoplasm, cytosol. Cell membrane. Golgi apparatus membrane. Recruited to plasma membrane by activated HRAS and RAP2. Recruited to perinuclear membrane by activated RAP1A. Isoform 1 and isoform 2 associates with Golgi membranes.