



Anti-PLCZ1 (internal region) polyclonal antibody (DPABH-13813)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description 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. In vitro, hydrolyzes PtdIns(4,5)P2 in a Ca(2+)-dependent manner. Triggers intracellular Ca(2+) oscillations in oocytes solely during M phase and is involved in inducing oocyte activation and initiating embryonic development up to the blastocyst stage. Is therefore a strong candidate for the egg-activating soluble sperm factor that is transferred from the sperm into the egg cytoplasm following gamete membrane fusion. May exert an inhibitory effect on phospholipase-C-coupled processes that depend on calcium ions and protein kinase C, including CFTR trafficking and function.

Immunogen	Synthetic peptide corresponding to Human PLCZ1 (internal sequence). Database link: Q86YW0
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A purified
Conjugate	Unconjugated
Applications	WB, IHC-P
Format	Liquid
Size	100 µg
Buffer	Constituents: 1.21% Tris, 0.75% Glycine, 2% Sucrose
Storage	Shipped at 4°C. Store at 4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

GENE INFORMATION

Gene Name	PLCZ1 phospholipase C, zeta 1 [Homo sapiens]
Official Symbol	PLCZ1
Synonyms	PLCZ1; phospholipase C, zeta 1; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1; NYD SP27; PLCzeta; PLC-zeta-1; phospholipase C-zeta-1; PI-phospholipase C zeta 1; testis-development protein NYD-SP27; testis-development related NYD-SP27; phosphoinositide phospholipase C-zeta-1; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase zeta-1; NYD-SP27; MGC149685;
Entrez Gene ID	89869
Protein Refseq	NP_149114
UniProt ID	Q86YW0
Chromosome Location	12p13.31
Pathway	Calcium signaling pathway; D-myo-inositol (1,4,5)-trisphosphate biosynthesis; D-myo-inositol-5-phosphate metabolism; Inositol phosphate metabolism; Inositol phosphate metabolism, PI=>
Function	calcium ion binding; hydrolase activity; phosphatidylinositol phospholipase C activity; signal transducer activity;