

Rabbit anti-Human, mouse PLCZ1 Polyclonal Antibody | anti-PLCZ1 antibody

PLCZ1 Antibody (N-term)

CATALOG # AAA287834	HOST Rabbit	REACTIVITY Human, mouse	APPLICATIONS ELISA, Western Blot
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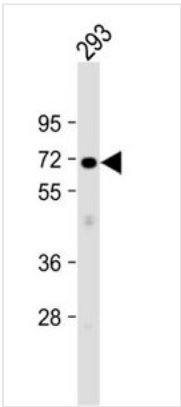
PRODUCT SYNONYMS

PLCZ1; Polyclonal Antibody; PLCZ1 Antibody (N-term); 1-phosphatidylinositol 4; 5-bisphosphate phosphodiesterase zeta-1; Phosphoinositide phospholipase C-zeta-1; Phospholipase C-zeta-1; PLC-zeta-1; Testis-development protein NYD-SP27; PLCZ1 HGNC:19218; anti-PLCZ1 antibody

PRODUCT SPECIFICATIONS

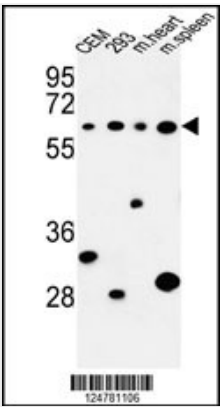
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PLCZ1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-54 amino acids from the N-terminal region of human PLCZ1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	26-54
Sequence Length	504
Applicable Applications for anti-PLCZ1 antibody	ELISA, WB (Western Blot)
Calculated MW	70411
Function	The production of the second messenger molecules diacylglycerol (DAG) and inositol1,4,5-trisphosphate (IP3) is mediated byactivated phosphatidylinositol-specificphospholipase C enzymes. In vitro,hydrolyzes PtdIns(4,5)P2 in a Ca(2+)-dependent manner. Triggers intracellularCa(2+) oscillations in oocytes solely during Mphase and is involved in inducing oocyteactivation and initiating embryonicdevelopment up to the blastocyst stage. Is there fore a strong candidate for the egg-activating soluble sperm factor that is transferred from the sperm into the eggcytoplasm following gamete membrane fusion. May exert an inhibitory effect onphospholipase-C-coupled processes that depend on calcium ions and protein kinase C,including CFTR trafficking and function.
Cellular Location	Nucleus {ECO:0000250 UniProtKB:Q8K4D7}.Cytoplasm, perinuclear region{ECO:0000250 UniProtKB:Q8K4D7}Note=Exhibits alternativecytoplasmic/nuclear localization duringdevelopment. Translocates from thepronucleus into cytoplasm upon nuclearenvelope breakdown for mitosis and localizesagain to the pronucleus at interphasefollowing meiosis and mitosis (By similarity).{ECO:0000250 UniProtKB:Q8K4D7}.
Tissue Location	Expressed specifically in testis and sperm.Weakly expressed in pancreatic-duct cells.Up-regulated in pancreatic-duct cells frompatients with cystic fibros.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



Application Data

Anti-PLCZ1 Antibody (N-term) at 1:1000 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted bandsize : 70 kDa Blocking/Dilution buffer: 5% NFDm/TBST



WB (Western Blot)

Western blot analysis of PLCZ1 Antibody (N-term) in CEM, 293 cell line and mouse heart,spleen tissue lysates (35ug/lane). PLCZ1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Product Categories/Family for anti-PLCZ1 antibody	Cancer; Metabolism
References	Yoon, S.Y., et al. J. Clin. Invest. 118(11):3671-3681(2008) Ito, M., et al. Biol. Reprod. 78(6):1081-1090(2008) Yu, Y., et al. Hum. Reprod. 23(2):365-373(2008) Yoshida, N., et al. Development 134(21):3941-3952(2007) Zhu, J.X., et al. Cell Biol. Int. 31(5):521-525(2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	25188201
NCBI GeneID	89869
NCBI Accession #	NP_149114.2
NCBI GenBank Nucleotide #	NM_033123.3
UniProt Accession #	Q86YW0; Q08AQ7; Q96J70
NCBI Official Full Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1
NCBI Official Synonym Full Names	phospholipase C, zeta 1
NCBI Official Symbol	PLCZ1
NCBI Official Synonym Symbols	PLCzeta; NYD-SP27; PLC-zeta-1
NCBI Protein Information	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1
UniProt Protein Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1
UniProt Gene Name	PLCZ1
UniProt Synonym Gene Names	PLC-zeta-1
UniProt Entry Name	PLCZ1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

