

Product datasheet for **AP55157SU-N**

PLCZ1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	Western Blot. 1/100-1/1000. ELISA. Immunocytochemistry 1/50-1/1000.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptides derived from internal parts of PLC-zeta-1
Specificity:	This antibody reacts with human PLC zeta protein. No cross reaction.
Formulation:	0.1M Tris, 0.1M Glycine, 2% Sucrose State: Serum State: Lyophilized Powder
Reconstitution Method:	Restore in distilled water.
Concentration:	lot specific
Purification:	Antiserum
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phospholipase C zeta 1
Database Link:	Entrez Gene 89869 Human Q86YW0



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Background:	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.
Synonyms:	Phospholipase C-zeta-1, Phospholipase C zeta 1, PLC-zeta-1