

Product datasheet for **AP55157SU-N**

PLCZ1 Rabbit Polyclonal Antibody

Product data:

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|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| 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 Ca²⁺-dependent manner. Triggers intracellular Ca²⁺ 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