

Rabbit Anti-PLCZ1/Cy5 Conjugated antibody

SL5378R-Cy5

Product Name	Anti-PLCZ1/Cy5
Chinese Name	Cy5 标记的磷酸肌醇磷脂酶 PLCZ1 抗体
Alias	1 phosphatidylinositol 4,5 bisphosphate phosphodiesterase zeta 1; Phosphoinositide phospholipase C zeta 1; Phospholipase C zeta 1; PI phospholipase C zeta 1; PLC zeta 1; PLCzeta; Testis development protein NYD SP27; Testis development related NYD SP27; MGC149685 antibody NYD SP27 antibody.
Research Area	immunology transcriptional regulatory factor Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Rat(predicted:Mouse,Dog,Pig,Cow,Horse) IF=1:50-200
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	70kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PLCZ1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	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, PLCZ1 hydrolyzes PtdIns(4,5)P2 in a Ca ²⁺ -dependent manner. It 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. PLCZ1 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. It may exert an inhibitory effect on phospholipase-C-coupled processes that depend on calcium ions and protein kinase C, including CFTR trafficking and function.

Database links:

[Entrez Gene: 89869](#) Human

[Entrez Gene: 114875](#) Mouse

[Entrez Gene: 497197](#) Rat

[Omim: 608075](#) Human

[SwissProt: Q86YW0](#) Human

[SwissProt: Q8K4D7](#) Mouse

[SwissProt: Q5FX52](#) Rat

[Unigene: 97542](#) Human

[Unigene: 50808](#) Mouse

[Unigene: 123184](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.