

Datasheet for ABIN801183
anti-PLCz1 antibody (AA 351-450)

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	PLCz1
Binding Specificity:	AA 351-450
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLCz1 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PLCZ1
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	PLCz1
---------	-------

Target Details

Alternative Name: PLCZ1 ([PLCz1 Products](#))

Background: Synonyms: PLCzeta, NYD-SP27, PLC-zeta-1, 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1, Phosphoinositide phospholipase C-zeta-1, Phospholipase C-zeta-1, Testis-development protein NYD-SP27, PLCZ1, PLCZ1_HUMAN

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. May exert an inhibitory effect on phospholipase-C-coupled processes that depend on calcium ions and protein kinase C, including CFTR trafficking and function.

Gene ID: 89869

UniProt: [Q86YW0](#)

Application Details

Application Notes: ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.

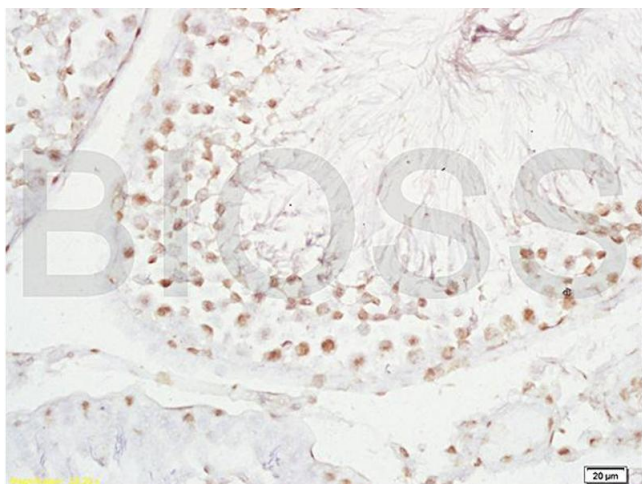
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

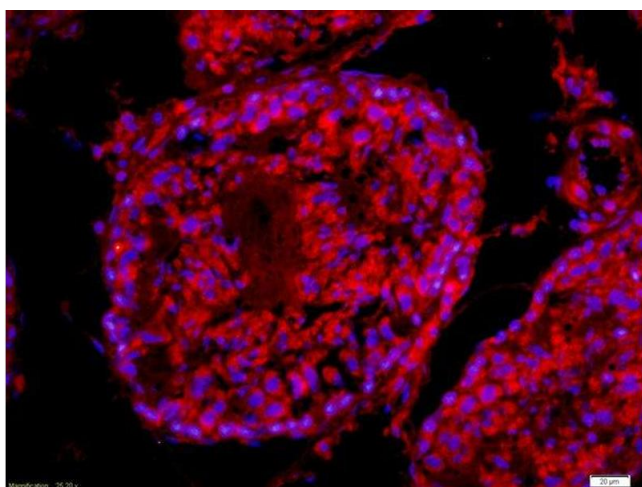
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

Images



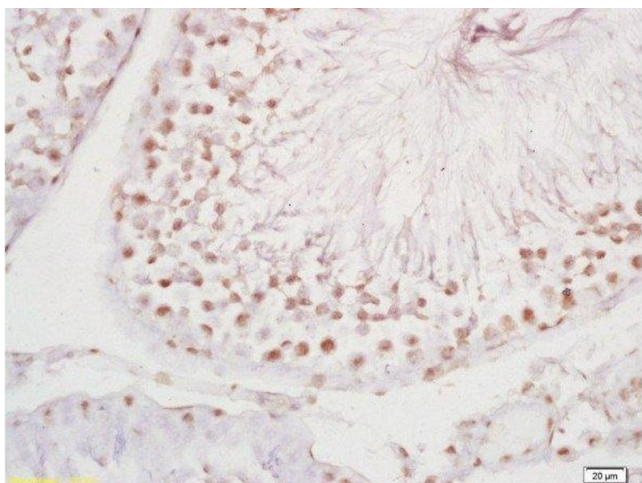
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat testis tissue labeled with Anti-PLCZ1 Polyclonal Antibody, Unconjugated (ABIN801183) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence

Image 2. Formalin-fixed and paraffin-embedded rat testis labeled with Anti-PLCZ1 Polyclonal Antibody, Unconjugated (ABIN801183) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG,Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded rat testis tissue labeled with Anti-PLCZ1 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining