

[Go to Product page](#)

Datasheet for ABIN7142055  
**anti-PLCD4 antibody (AA 1-762) (Biotin)**

## Overview

Quantity:	100 µg
Target:	PLCD4
Binding Specificity:	AA 1-762
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLCD4 antibody is conjugated to Biotin
Application:	ELISA

## Product Details

Immunogen:	Recombinant Human 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4 protein (1-762AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	PLCD4
Alternative Name:	PLCD4 ( <a href="#">PLCD4 Products</a> )
Background:	Background: Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP2) to generate 2 second

## Target Details

messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). DAG mediates the activation of protein kinase C (PKC), while IP3 releases Ca<sup>2+</sup> from intracellular stores. Required for acrosome reaction in sperm during fertilization, probably by acting as an important enzyme for intracellular Ca<sup>2+</sup> mobilization in the zona pellucida-induced acrosome reaction. May play a role in cell growth. Modulates the liver regeneration in cooperation with nuclear PKC. Overexpression up-regulates the Erk signaling pathway and proliferation.

Aliases: 1 phosphatidylinositol 4 5 bisphosphate phosphodiesterase delta 4 antibody, 1-phosphatidylinositol 4 antibody, 1-phosphatidylinositol-4 antibody, 5-bisphosphate phosphodiesterase delta-4 antibody, hPLCD4 antibody, MGC12837 antibody, Phosphoinositide phospholipase C delta 4 antibody, Phosphoinositide phospholipase C-delta-4 antibody, Phospholipase C delta 4 antibody, Phospholipase C-delta-4 antibody, PLC delta 4 antibody, PLC delta4 antibody, PLC-delta-4 antibody, PLCD4 antibody, PLCD4\_HUMAN antibody

UniProt: [Q9BRC7](#)

Pathways: [Inositol Metabolic Process](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

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

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.