

**DATASHEET**

**PLC delta 4 Rabbit Polyclonal Antibody**

CAT. NO. APA16515

**KEY FEATURES**

Target	PLC delta 4	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP2) to generate 2 second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). DAG mediates the activation of protein kinase C (PKC), while IP3 releases Ca(2+) from intracellular stores. Required for acrosome reaction in sperm during fertilization, probably by acting as an important enzyme for intracellular Ca(2+) 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.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
----	----------------

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

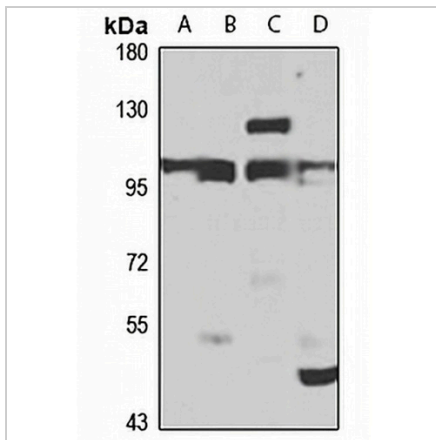
Description	Rabbit polyclonal antibody to PLC delta 4
Specificity	Recognizes endogenous levels of PLC delta 4 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human PLC delta 4. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 31; Observed: 110 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	1-phosphatidylinositol 4 5-bisphosphate phosphodiesterase delta-4; hPLCD4; Phosphoinositide phospholipase C-delta-4; Phospholipase C-delta-4; PLC-delta-4
Gene Symbol	PLCD4
Entrez Gene	84812(Human); 18802(Mouse); 140693(Rat)
SwissProt	Q9BRC7(Human); Q8K3R3(Mouse); Q62711(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET****PLC delta 4 Rabbit Polyclonal Antibody**

CAT. NO. APA16515

**DATA**

Western blot analysis of PLC delta 4 expression in THP1 (A), mouse brain (B), mouse testis (C), rat brain (D) whole cell lysates. (Predicted band size: 31; 87 kD; Observed band size: 110 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.