

PACO40714

Product Information

Size:

50ug

Reactivity:

Human

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, IHC

Recommended dilutions:

ELISA:1:2000-1:10000, IHC:1:20-1:200

Protein 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 Ca²⁺ from intracellular stores. Required for acrosome reaction in sperm during fertilization, probably by acting as an important enzyme for intracellular Ca²⁺ 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.

Gene ID:

PLCD4

Uniprot

Q9BRC7

Synonyms:

1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4 (hPLCD4) (EC 3.1.4.11) (Phosphoinositide phospholipase C-delta-4) (Phospholipase C-delta-4) (PLC-delta-4), PLCD4

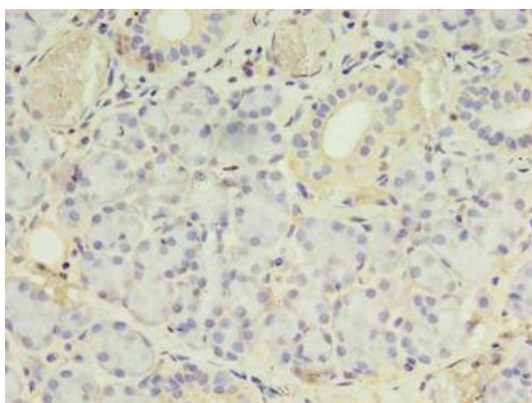
Immunogen:

Recombinant Human 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4 protein (1-762AA).

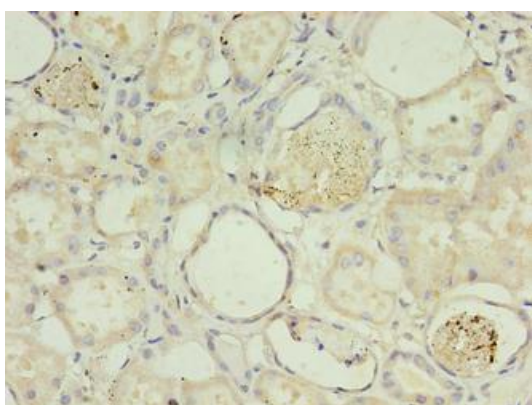
Storage:

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

Product Images



Immunohistochemistry of paraffin-embedded human pancreatic tissue using PACO40714 at dilution of 1:100.



Immunohistochemistry of paraffin-embedded human kidney tissue using PACO40714 at dilution of 1:100.