ARG43842
anti-PLCD3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PLCD3
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Pig
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PLCD3
Species	Human
Immunogen	Synthetic peptide around the internal region of Human PLCD3.
Conjugation	Un-conjugated
Alternate Names	PLCD3; Phospholipase C Delta 3; 1-Phosphatidylinositol 4,5-Bisphosphate Phosphodiesterase Delta-3; Phosphoinositide Phospholipase C-Delta-3; PLC-Delta-3; EC 3.1.4.11; 1-Phosphatidylinositol-4,5-Bisphosphate Phosphodiesterase Delta-3; Phospholipase C, Delta 3; Phospholipase C-Delta-3; PLC Delta3; KIAA1964

Application Instructions

Application table

Application	Dilution
IHC-P	6 µg/ml
WB	1-3 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

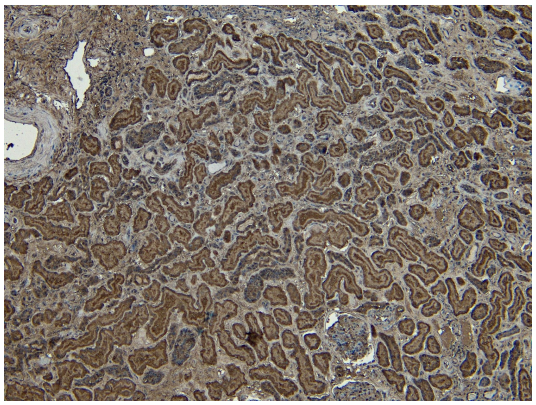
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

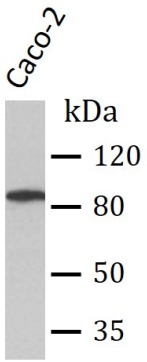
Gene Symbol	PLCD3
Gene Full Name	Phospholipase C Delta 3
Background	This gene encodes a member of the phospholipase C family, which catalyze the hydrolysis of phosphatidylinositol 4,5-bisphosphate to generate the second messengers diacylglycerol and inositol 1,4,5-trisphosphate (IP3). Diacylglycerol and IP3 mediate a variety of cellular responses to extracellular stimuli by inducing protein kinase C and increasing cytosolic Ca(2+) concentrations. This enzyme localizes to the plasma membrane and requires calcium for activation. Its activity is inhibited by spermine, sphingosine, and several phospholipids. [provided by RefSeq, Jul 2008]
Function	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. Essential for trophoblast and placental development. May participate in cytokinesis by hydrolyzing PIP2 at the cleavage furrow.
Calculated Mw	89 kDa
PTM	Phosphoprotein
Cellular Localization	Cytoplasm, Membrane

Images



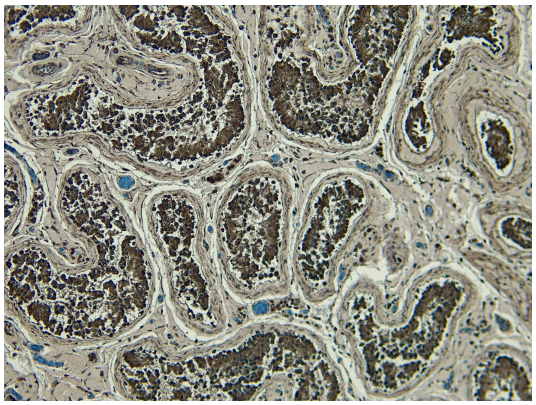
ARG43842 anti-PLCD3 antibody IHC-P image

Immunohistochemistry: Human Kidney stained with ARG43842 anti-PLCD3 antibody at 6 µg/ml



ARG43842 anti-PLCD3 antibody WB image

Western blot: Caco-2 cell stained with ARG43842 anti-PLCD3 antibody at 3 µg/ml.



ARG43842 anti-PLCD3 antibody IHC-P image

Immunohistochemistry: Human Testis stained with ARG43842 anti-PLCD3 antibody at 6 µg/ml