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PLCD1/NDNC3 Rabbit pAb

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Catalog # AP54942

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P51178
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85665
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PLCD1/NDNC3
Epitope Specificity	211-310/756
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
DISEASE	The disease is caused by mutations affecting the gene represented in this entry. Disease description:A nail disorder characterized by a white appearance of the nail plate (true leukonychia), the nail bed (pseudoleukonychia), or neither (apparent leukonychia). Leukonychia may involve all of the nail (leukonychia totalis) or only part of the nail (leukonychia partialis), or can appear as one or more transverse bands (leukonychia striata) or white spots (leukonychia punctata).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the phospholipase C family. Phospholipase C isozymes play critical roles in intracellular signal transduction by catalyzing the hydrolysis of phosphatidylinositol 4,5-bisphosphate (PIP2) into the second messengers diacylglycerol (DAG) and inositol triphosphate (IP3). The encoded protein functions as a tumor suppressor in several types of cancer, and mutations in this gene are a cause of hereditary leukonychia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Additional Information

Gene ID	5333
Other Names	1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase delta-1, 3.1.4.11, Phosphoinositide phospholipase C-delta-1, Phospholipase C-III, PLC-III, Phospholipase C-delta-1, PLC-delta-1, PLCD1 (HGNC:9060)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

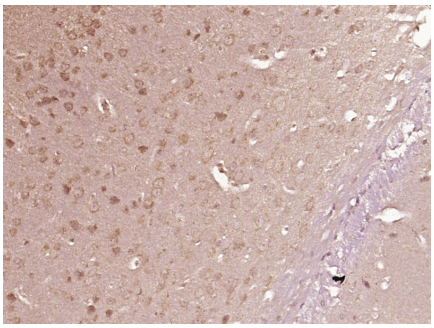
Protein Information

Name	PLCD1 (HGNC:9060)
Function	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 (PubMed:15331768, PubMed:9188725). Essential for trophoblast and placental development (By similarity). Binds phosphatidylinositol 4,5- bisphosphate (PubMed:15331768, PubMed:7890667, PubMed:9188725).
Cellular Location	Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm. Note=The membrane binding is driven by the C2 domain (By similarity). Localized predominantly to the plasma membrane because of the high affinity of the PH domain for PtdIns(4,5)P2 (PubMed:15331768). Translocation to the cytosol is a consequence of the higher affinity for Ins(1,4,5)P3 than PtdIns(4,5)P2 and therefore reflects cellular levels of Ins(1,4,5)P3 (Probable) {ECO:0000250|UniProtKB:P10688, ECO:0000269|PubMed:15331768, ECO:0000305|PubMed:15331768}
Tissue Location	Strongly expressed in lung, liver and heart. Also expressed at least in pancreas, kidney, skeletal muscle, placenta and brain.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PLCD1/NDNC3) Polyclonal Antibody, Unconjugated (AP54942) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.