10320 Camino Santa Fe, Suite G
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PLCD1/NDNC3 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54942

Specification

PLCD1/NDNC3 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	P51178
Reactivity	**Rat, Pig, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**86 KDa**
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.**
SIMILARITY	**Contains 1 C2 domain. Contains 2 EF-hand domains. Contains 1 PH domain. Contains 1 PI-PLC X-box domain. Contains 1 PI-PLC X-box domain.**
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]

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PLCD1/NDNC3 Polyclonal Antibody - 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~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ 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 ℃.

PLCD1/NDNC3 Polyclonal Antibody - 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:9188725). Essential for trophoblast and placental development (By similarity). Binds phosphatidylinositol 4,5-bisphosphate (PubMed:7890667, PubMed:9188725).

Tissue Location
Strongly expressed in lung, liver and heart. Also expressed at least in pancreas, kidney, skeletal muscle, placenta and brain.

PLCD1/NDNC3 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PLCD1/NDNC3 Polyclonal Antibody - Images

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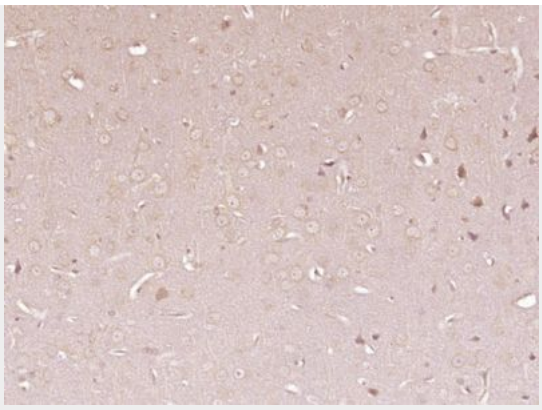
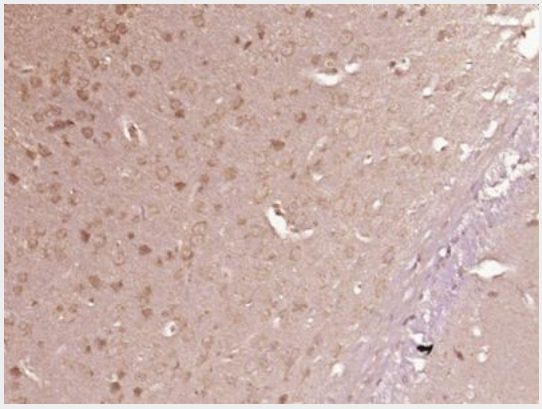


Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PLCD1/NDNC3) Polyclonal Antibody, Unconjugated (bs-12714R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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 (bs-12714R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.