



## Anti-PLCD1 (aa 1-100) polyclonal antibody (DPAB-DC2266)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

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| <b>Antigen Description</b> | 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. |
| <b>Immunogen</b>           | PLCD1 (AAH50382, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. The sequence is<br><br>MDSGRDFLTLHGLQDDEDLQALLKGSQLLKVKSSSWRRERFYKLQEDCKTIWQESRKVMR<br>TPESQLFSIEDIQEVRMGHRTEGLEKFARDVPEDRCFSIV   |
| <b>Source/Host</b>         | Mouse  |
| <b>Species Reactivity</b>  | Human  |
| <b>Conjugate</b>           | Unconjugated   |
| <b>Applications</b>        | ELISA,   |
| <b>Size</b>                | 50 µl  |
| <b>Buffer</b>              | 50 % glycerol  |
| <b>Preservative</b>        | None   |
| <b>Storage</b>             | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.   |

### GENE INFORMATION

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| <b>Gene Name</b>           | <a href="#">PLCD1 phospholipase C, delta 1 [ Homo sapiens (human) ]</a>  |
| <b>Official Symbol</b>     | PLCD1  |
| <b>Synonyms</b>            | PLCD1; phospholipase C, delta 1; NDNC3; PLC-III; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-1; PLC-delta-1; phospholipase C-III; phosphoinositide phospholipase C-delta-1; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-1; |
| <b>Entrez Gene ID</b>      | <a href="#">5333</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_001124436</a>   |
| <b>UniProt ID</b>          | <a href="#">P51178</a>   |
| <b>Chromosome Location</b> | 3p22-p21.3   |
| <b>Pathway</b>             | Calcium signaling pathway; D-myo-inositol (1,4,5)-trisphosphate biosynthesis; D-myo-inositol-5-phosphate metabolism; Inositol phosphate metabolism   |
| <b>Function</b>            | GTPase activating protein binding; calcium ion binding; phosphatidylinositol phospholipase C activity; signal transducer activity  |

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