



# Anti-PLCD3 (aa 230-321) polyclonal antibody (DPABH-20180)

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

## PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Antigen Description</b> | 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 Ca(2+) from intracellular stores. Essential for trophoblast and placental development. May participate in cytokinesis by hydrolyzing PIP2 at the cleavage furrow. |
| <b>Immunogen</b>           | antigen sequence: CDHSNNDRL EGAIEEFLLR LLKRPELEEI FHQYSGEDRV LSAPELLEFL EDQGEEGATL ARAQQLIQTY ELNETAKQHE LMTLDGFM MY LL, corresponding to internal sequence amino acids 230-321 of Human PLC-delta-3.                                                                                                                                                                                                         |
| <b>Isotype</b>             | IgG                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source/Host</b>         | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species Reactivity</b>  | Human                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purification</b>        | Immunogen affinity purified                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Conjugate</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>        | IHC-P, WB                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Format</b>              | Liquid                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Size</b>                | 100 µl                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Buffer</b>              | pH: 7.20; Constituents: 59% PBS, 40% Glycerol                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Preservative</b>        | 0.02% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>             | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                         |

# GENE INFORMATION

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|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | <a href="#">PLCD3 phospholipase C, delta 4 [ Homo sapiens ]</a>                                                                                                                                                                           |
| Official Symbol | PLCD3                                                                                                                                                                                                                                     |
| Synonyms        | PLCD3; phospholipase C, delta 3; PLC-delta-3; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3; PLC delta3; phosphoinositide phospholipase C-delta-3; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-3; |
| Entrez Gene ID  | <a href="#">113026</a>                                                                                                                                                                                                                    |
| Protein Refseq  | <a href="#">NP_588614.1</a>                                                                                                                                                                                                               |
| UniProt ID      | <a href="#">Q8N3E9</a>                                                                                                                                                                                                                    |
| Pathway         | Calcium signaling pathway; D-myo-inositol (1,4,5)-trisphosphate biosynthesis; Inositol phosphate metabolism; Inositol phosphate metabolism                                                                                                |
| Function        | calcium ion binding; phosphatidylinositol phospholipase C activity; signal transducer activity;                                                                                                                                           |