

## Anti-PLCG 2/PLCG2 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: A03572-1-Fluoro488

### About PLCG2

1-Phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-2 is an enzyme that in humans is encoded by the PLCG2 gene. The protein encoded by this gene is a transmembrane signaling enzyme that catalyzes the conversion of 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate to 1D-myo-inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) using calcium as a cofactor. IP3 and DAG are second messenger molecules important for transmitting signals from growth factor receptors and immune system receptors across the cell membrane. Mutations in this gene have been found in autoinflammation, antibody deficiency, and immune dysregulation syndrome and familial cold autoinflammatory syndrome 3.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-PLCG 2/PLCG2 Antibody Picoband® Fluoro488 Conjugated   |
| Reactive Species     | Human   |
| Application          | Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.   |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.  |
| Host                 | Rabbit  |
| Uniprot ID           | P16885  |

### Technical Details

|                     |   |
|---------------------|---|
| Immunogen           | E. coli-derived human PLCG 2 recombinant protein (Position: R1201-V1258).     |
| Cross Reactivity    | No cross-reactivity with other proteins.                                      |
| Isotype             | Rabbit IgG  |
| Form                | Liquid  |
| Concentration       | 0.5 mg/mL   |
| Purification        | Immunogen affinity purified.  |
| Conjugate           | Fluoro488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users.                          |

## 1 Publications Citing This Product

1. PubMed ID: 10.1080/10520295.2017.1355475, Enhancement or inhibition of PLCgamma2 expression in rat hepatocytes by recombinant adenoviral vectors that contain full-length gene or siRNA

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