

**PLC gamma 2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10543****Specification**

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**PLC gamma 2 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P16885</a>
Other Accession	<a href="#">AAH18646</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	147870

**PLC gamma 2 Antibody - Additional Information****Gene ID 5336**

Positive Control	<b>Western Blot: Jurkat cell lysate . IHC: Brain and Cortex tissue</b>
Application & Usage	<b>Western blotting (0.5-4 µg/ml) and Immunohistochemistry (5 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes 139 kDa human PLCg2. Jurkat cell lysate can be used as a positive control. Reactivity to other species has not been determined.</b>

**Other Names**

PLC2 , PLC148 , PLC-II , PLC-148, inositoltrisphosphohydrolase

**Target/Specificity**

PLC gamma 2

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) protein A affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

PLC gamma 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**PLC gamma 2 Antibody - Protein Information**

**Name** PLCG2 ([HGNC:9066](#))

**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. It is a crucial enzyme in transmembrane signaling.

**Cellular Location**

Membrane raft {ECO:0000250|UniProtKB:Q8CIH5}.

**PLC gamma 2 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 Cytometry](#)
- [Cell Culture](#)

**PLC gamma 2 Antibody - Images****PLC gamma 2 Antibody - Background**

PLC (Phosphoinositide-specific phospholipase C) plays a significant role in transmembrane signaling. Four members of PLCs have been identified: PLC $\beta$ , PLC $\gamma$ , PLC $\delta$ , and PLC $\epsilon$ . In response to extracellular stimuli (e.g., hormone, growth factors, neurotransmitters), PLC hydrolyzes phosphatidylinositol 4,5-bisphosphate (PIP2) into two secondary messengers: inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG). PLC $\gamma$ 2 is engaged in antigen-dependent signaling in B-cells and collagen-dependent signaling in platelets.