

PLC γ 2 Polyclonal Antibody

CATALOG #:	3587-100
AMOUNT:	100 μ g
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide near the C-terminus of human PLC γ 2.
SPECIES REACTIVITY:	Human, Mouse, Rat

FORMULATION:

100 μ g (0.5 mg/ml) peptide affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND:

PLC (Phosphoinositide-specific phospholipase C) plays a significant role in transmembrane signaling. Four members of PLCs have been identified: PLC β , PLC γ , PLC δ , and PLC ϵ . 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-triphosphate (IP₃) and diacylglycerol (DAG). PLC γ 2 is engaged in antigen-dependent signaling in B-cells and collagen-dependent signaling in platelets.

SPECIFICITY:

The antibody recognizes 150 kDa PLC γ 2 in samples from human, mouse, and rat origins. The antibody does not cross-react with PLC γ 1.

APPLICATION:

The antibody can be used in Western blotting (1-4 μ g/ml), immunoprecipitation (20 μ g/ml), and immunohistochemistry (20 μ g/ml). However, the optimal concentrations should be determined individually.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies