

**PLC  $\gamma$ 2 (phospho Tyr1217) rabbit pAb****Cat#: orb769483 (Manual)**

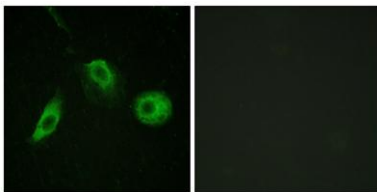
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	PLC $\gamma$ 2 (phospho Tyr1217) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PLCG2 around the phosphorylation site of Tyr1217. AA range:1186-1235
<b>Specificity</b>	Phospho-PLC $\gamma$ 2 (Y1217) Polyclonal Antibody detects endogenous levels of PLC $\gamma$ 2 protein only when phosphorylated at Y1217.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2
<b>Gene Name</b>	PLCG2
<b>Cellular localization</b>	intracellular,cytosol,plasma membrane,extracellular exosome,
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

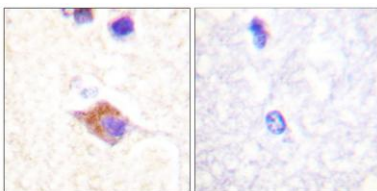
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	148kD
<b>Human Gene ID</b>	5336
<b>Human Swiss-Prot Number</b>	P16885
<b>Alternative Names</b>	PLCG2; 1-phosphatidylinositol 4; 5-bisphosphate phosphodiesterase gamma-2; Phosphoinositide phospholipase C-gamma-2; Phospholipase C-IV; PLC-IV; Phospholipase C-gamma-2; PLC-gamma-2

**Background**

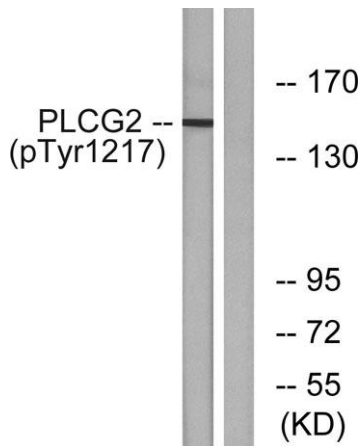
The protein encoded by this gene is a transmembrane signaling enzyme that catalyzes the conversion of 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate to 1D-myo-inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) using calcium as a cofactor. IP3 and DAG are second messenger molecules important 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. [provided by RefSeq, Mar 2014],



**Immunofluorescence analysis of HeLa cells, using PLCG2 (Phospho-Tyr1217) Antibody. The picture on the right is blocked with the phospho peptide.**



**Immunohistochemistry analysis of paraffin-embedded human brain, using PLCG2 (Phospho-Tyr1217) Antibody. The picture on the right is blocked with the phospho peptide.**



Western blot analysis of lysates from Jurkat cells treated with UV 15', using PLCG2 (Phospho-Tyr1217) Antibody. The lane on the right is blocked with the phospho peptide.