

## Product datasheet for **AP02452PU-S**

### PLCG 2 (PLCG2) pTyr753 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from Human PLCG2 around the phosphorylation site of tyrosine 753 (S-L-Yp-D-V).
Specificity:	AP02452PU antibody detects endogenous levels of PLC-gamma 2 only when phosphorylated at Tyrosine 753.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	phospholipase C gamma 2
Database Link:	<a href="#">Entrez Gene 5336 Human P16885</a>



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**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 (PIP<sub>2</sub>) into two secondary messengers: inositol 1,4,5-triphosphate (IP<sub>3</sub>) and diacylglycerol (DAG). PLC $\gamma$ 2 is engaged in antigen-dependent signaling in B-cells and collagen-dependent signaling in platelets.

**Synonyms:** Phospholipase C-gamma-2, PLC-gamma-2, Phospholipase C-IV, PLC-IV

**Note:** Molecular Weight: 150 kDa

### Product images:

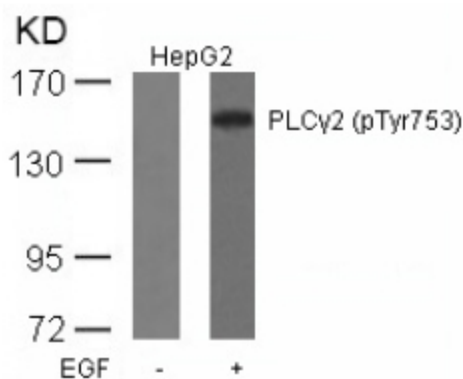


Figure 2. Western blot analysis of extract from HepG2 cells untreated or treated with EGF using PLC $\gamma$ 2 antibody (phospho-Tyr753).

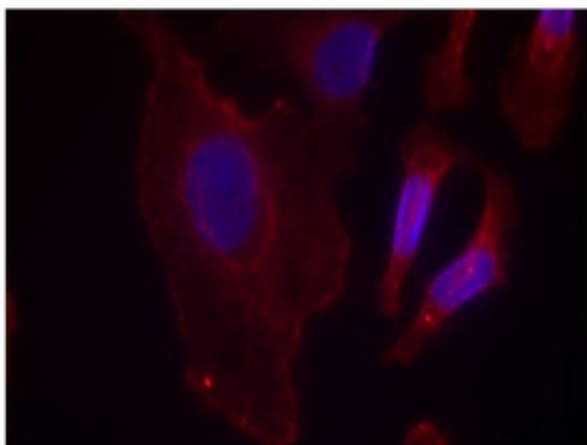


Figure 1. Immunofluorescence staining of methanol-fixed HeLa cells using PLC $\gamma$ 2 antibody (phospho-Tyr753).