

## PLCG2 Ab

[Images\(2\)](#)

Cat.#: DF6905	Concn.: ~1mg/ml	Mol.Wt.: 150kDa
Size:	Source: Rabbit	Clonality: Polyclonal

**Application:** WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500  
\*The optimal dilutions should be determined by the end user.

**Reactivity:** Human,Mouse,Rat

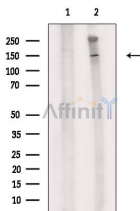
**Storage:** Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

**Purification:** The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Immunogen:** A synthesized peptide derived from human PLCG2, corresponding to a region within the internal amino acids.

**Uniprot:** P16885

**Description:** Phosphoinositide-specific phospholipase C (PLC) plays a significant role in transmembrane signaling. In response to extracellular stimuli such as hormones, growth factors and neurotransmitters, PLC hydrolyzes phosphatidylinositol 4,5-bisphosphate (PIP2) to generate two secondary messengers: inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG) . At least four families of PLCs have been identified: PLC $\beta$ , PLC $\delta$ , PLC $\epsilon$  and PLC $\zeta$ . The PLC $\zeta$  subfamily includes four members, PLC $\zeta$ 1-4. All four members of the subfamily are activated by  $\beta$ - or  $\gamma$ -subunits of the heterotrimeric G-proteins (2,3).Phosphorylation is one of the key mechanisms that regulates the activity of PLC. Phosphorylation of Ser1105 by PKA or PKC inhibits PLC $\zeta$ 3 activity (4,5).



Western blot analysis of extracts from K562 cells (serum starvation treatment), using PLCG2 Ab. The lane on the left was treated with blocking peptide.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.



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