



Rabbit Anti-Phospho-PLCG 2 (Tyr1217) antibody

SL3338R

Product Name:	Phospho-PLCG 2 (Tyr1217)
Chinese Name:	磷酸化磷脂酶C γ 2抗体
Alias:	PLCG 2 (phospho Y1217); p-PLCG 2 (phospho Y1217); PLCG2(phospho Y1217); Phospho-PLC γ 2(Tyr1217); Phospho-PLC gamma 2/PLCG2(Tyr1217); PLC 2; PLC gamma 2; PLC IV; PLCG2; 1 phosphatidylinositol 4 5 bisphosphate phosphodiesterase gamma 2; EC 3.1.4.11; Phosphoinositide phospholipase C; Phospholipase C gamma 2; Phospholipase C, gamma 2 (phosphatidylinositol specific); PLCG2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1 μ g/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	139kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PLC gamma 2 around the phosphorylation site of Tyr1217:FL(p-Y)DT
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Enzymes of the phospholipase C family catalyze the hydrolysis of phospholipids to yield

diacylglycerols and water soluble phosphorylated derivatives of the lipid head groups. A number of these enzymes have specificity for phosphoinositides. Of the phosphoinositide specific phospholipase C enzymes, C beta is regulated by heterotrimeric G protein coupled receptors, while the closely related C gamma 1 and C gamma 2 enzymes are controlled by receptor tyrosine kinases. The C gamma 1 and C gamma 2 enzymes are composed of phospholipase domains that flank regions of homology to noncatalytic domains of the SRC oncogene product, SH2 and SH3.

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.

Subunit:

Interacts (via SH2 domain) with CSF1R (tyrosine phosphorylated) (By similarity).

Post-translational modifications:

Phosphorylated on tyrosine residues by BTK and SYK; upon ligand-induced activation of a variety of growth factor receptors and immune system receptors. Phosphorylation leads to increased phospholipase activity.

Similarity:

Contains 1 C2 domain.
Contains 1 PH domain.
Contains 1 PI-PLC X-box domain.
Contains 1 PI-PLC Y-box domain.
Contains 2 SH2 domains.
Contains 1 SH3 domain.

SWISS:

P16885

Gene ID:

5336

Database links:

[Entrez Gene: 5336](#) Human

[Entrez Gene: 234779](#) Mouse

[Entrez Gene: 29337](#) Rat

[Omim: 600220](#) Human

[SwissProt: P16885](#) Human

[SwissProt: Q8CIH5](#) Mouse

[SwissProt: P24135](#) Rat

[Unigene: 413111](#) Human

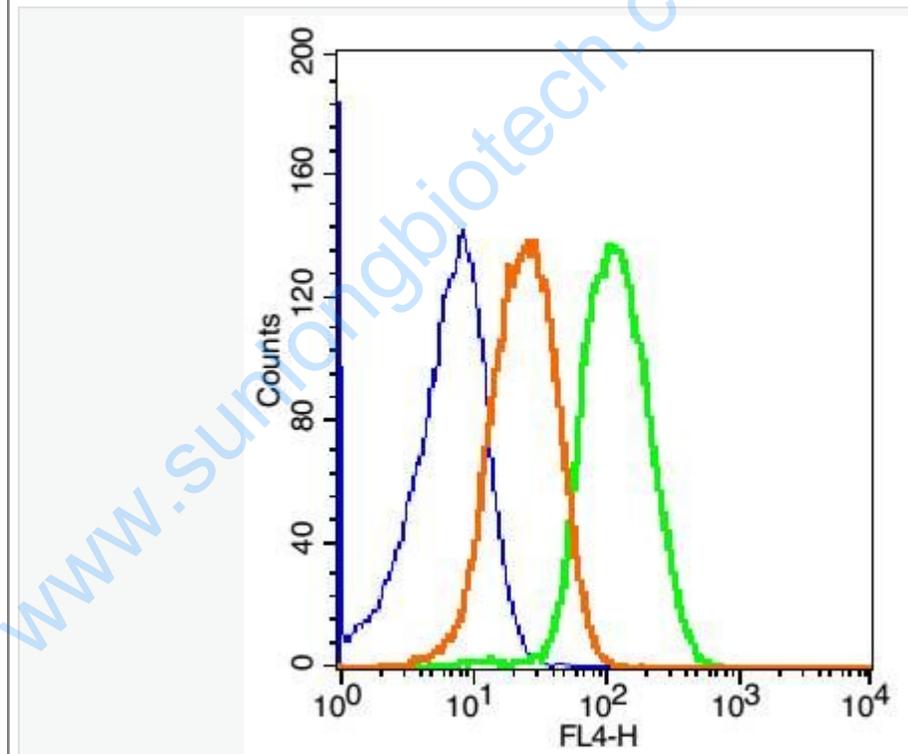
[Unigene: 192699](#) Mouse

[Unigene: 9751](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

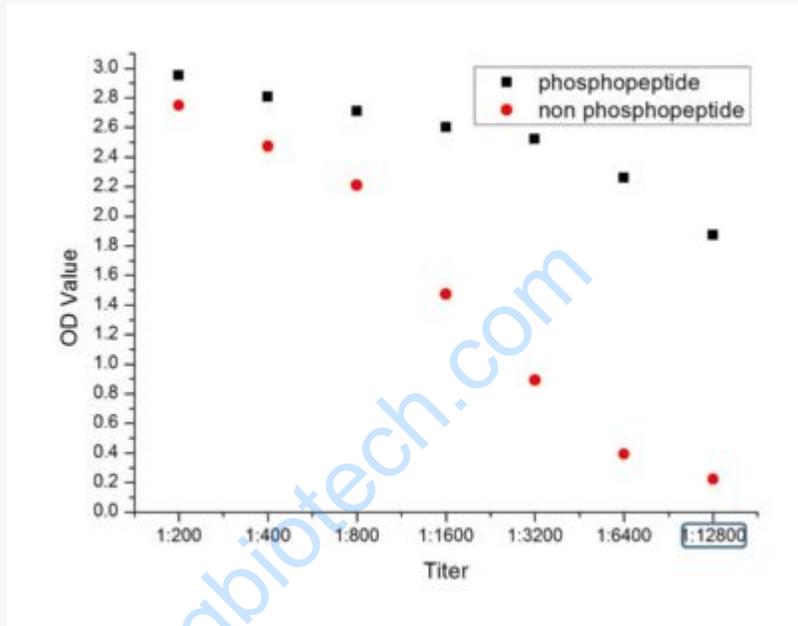
Picture:



Blank control(blue): Hep G2 Cells(fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice) .

Primary Antibody: Rabbit Anti-Phospho-PLCG 2 (Tyr1217)/AF647 Conjugated antibody (SL3338R), Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/AF647(orange) ,used under the same conditions.



phosphopeptide non phosphopeptide