



PLC γ 2 (Phospho-Tyr753) Antibody

#11175

Catalog Number: 11175-1, 11175-2

Amount: 50 μ g/50 μ l, 100 μ g/100 μ l

Swiss-Prot No. : P16885

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from Human PLC γ 2 around the phosphorylation site of tyrosine 753 (S-L-Y_P-D-V).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

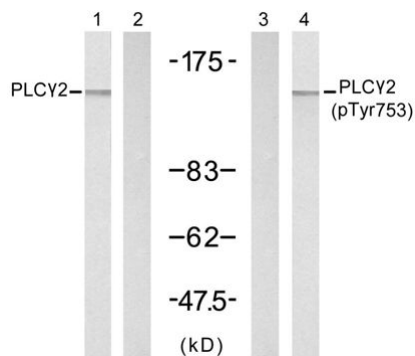
Specificity/Sensitivity: PLC γ 2 (phospho-Tyr753) antibody detects endogenous levels of PLC γ 2 only when phosphorylated at tyrosine 753.

Reactivity: Human, Mouse, Rat

Applications:

Predicted MW: 150 kd

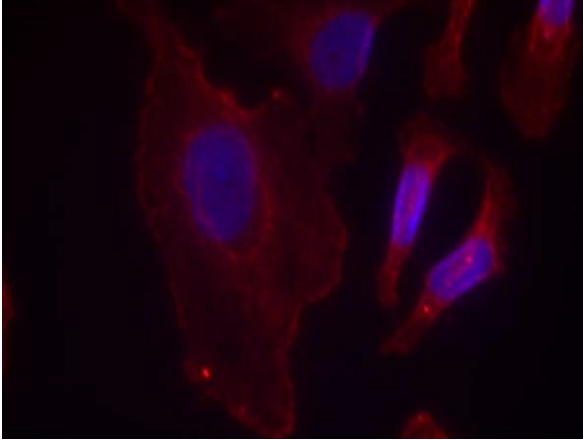
WB :1:500~1:1000 IF:1:100~1:200



EGF + + - +

Peptide - + - -

Western blot analysis of extract from A431 cells, untreated or treated with EGF (200ng/ml, 5min), using PLC γ 2 (Ab-753) antibody (#21186, Lane 1 and 2) and PLC γ 2 (phospho-Tyr753) antibody (#11175, Lane 3 and 4).



Immunofluorescence staining of methanol-fixed HeLa cells using PLC γ 2 (phospho-Tyr753) antibody (#11175, Red).

Background :

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.

References:

- Kim YJ, et al. (2004) Mol Cell Biol 24: 9986-9999
- Humphries LA, et al. (2004) J Biol Chem 279 : 37651-37661
- Suzuki-Inoue K, et al. (2004) Biochem J 378 : 1023-1029
- Rodriguez R, et al. (2003) Biochem J 374 : 269-280