

Anti-PLC gamma 2 Antibody

Catalog # AP50935

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P16885
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	147870

Additional Information

Gene ID	5336
Other Names	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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PLC gamma 2. The exact sequence is proprietary.
Dilution	WB~~ 1:500 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

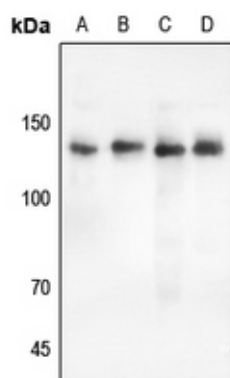
Name	PLCG2 (HGNC:9066)
Function	The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes (PubMed: 19394299 , PubMed: 23000145). It is a crucial enzyme in transmembrane signaling (PubMed: 23000145).
Cellular Location	Membrane raft {ECO:0000250 UniProtKB:Q8CIH5}.

References

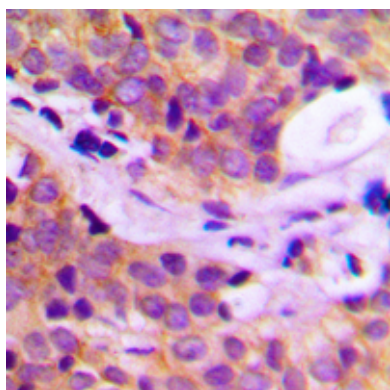
Ohta S.,et al.FEBS Lett. 242:31-35(1988).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DBJ databases.

Kemmer D.,et al.BMC Genomics 7:48-48(2006).
Martin J.,et al.Nature 432:988-994(2004).
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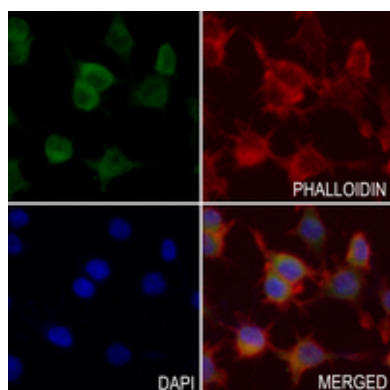
Images



Western blot analysis of PLC gamma 2 expression in Hela (A), H446 (B), mouse brain (C), rat brain (D) whole cell lysates. (Predicted band size: 147 kD; Observed band size: 148 kD)



Immunohistochemical analysis of PLC gamma 2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of PLC gamma 2 staining in RAW264.7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.