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SL3460R

Phospho-PLC gamma 1 (Tyr771)
磷酸化磷酯酶Cγ1抗体
PLC 1; PLC 148; PLC gamma 1; PLC II; PLC1; PLC148; PLCG 1; PLCG1; PLCgamma1; PLCII; triphosphoinositide phosphodiesterase; 1 phosphatidyl D myo inositol 4 5 bisphosphate; 1 phosphatidylinositol 4 5 bisphosphate; 1 phosphatidylinositol 4 5 bisphosphate phosphodiesterase gamma 1; inositoltrisphosphohydrolase; monophosphatidylinositol phosphodiesterase; phosphatidylinositol phospholipase C; phosphodiesterase gamma 1; phosphoinositidase C; phosphoinositide phospholipase C; Phospholipase C 148; phospholipase C gamma 1 (formerly subtype 148); Phospholipase C gamma 1; phospholipase C-148; PLCG1_HUMAN.
Rabbit
Polyclonal
Human, Mouse, Rat, Dog, Cow, Horse,
WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100- 500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
148kDa
The nucleuscytoplasmic
Lyophilized or Liquid
1mg/ml
KLH conjugated Synthesised phosphopeptide derived from human PLC gamma 1 around the phosphorylation site of Tyr771:PD(p-Y)GA
IgG
affinity purified by Protein A
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
PubMied: Product Detail:	 The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]. Function: Mediates the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). Plays an important role in the regulation of intracellular signaling cascades. Becomes activated in response to ligand-mediated activation of receptor-type tyrosine kinases, such as PDGFRA, PDGFRB, FGFR1, FGFR2, FGFR3 and FGFR4. Plays a role in actin reorganization and cell migration. Subunit: Interacts with AGAP2 via its SH3 domain. Interacts (via SH2 domain) with RET. Interacts with AGAP2 via its SH3 domain. Interacts (via SH2 domain) with FGFR1, FGFR2, FGFR3 and FGFR4 (phosphorylated). Interacts (via SH2 domain) with FGFR1, FGFR2, FGFR3 and FGFR4 (phosphorylated). Interacts (via SH2 domain) with FGFR1, FGFR2, FGFR3 and FGFR4 (phosphorylated). Interacts with LAT (phosphorylated) upon TCR activation. Interacts (via SH3 domain) with the Pro-rich domain of TNK1. Associates with BLNK, VAV1, GRB2 and NCK1 in a B-cell antigen receptor-dependent fashion. Interacts with CBLB in activated T-cells; which inhibits phosphorylation. Interacts with ASL, FLT4 and KIT. Interacts with RALGPS1. Interacts (via SH3 domain) with PDGFRA and PDGFRB (tyrosine phosphorylated). Interacts (via SH2 domain) with PDGFRA a
	treatment.

Post-translational modifications:

Tyrosine phosphorylated in response to signaling via activated FLT3, KIT and PDGFRA (By similarity). Tyrosine phosphorylated by activated FGFR1, FGFR2, FGFR3 and FGFR4. Tyrosine phosphorylated by activated FLT1 and KDR. Tyrosine phosphorylated by activated PDGFRB. The receptor-mediated activation of PLCG1 involves its phosphorylation by tyrosine kinases, in response to ligation of a variety of growth factor receptors and immune system receptors. For instance, SYK phosphorylates and activates PLCG1 in response to ligation of the B-cell receptor. May be dephosphorylated by PTPRJ. Phosphorylated by ITK and TXK on Tyr-783 upon TCR activation in T-cells. Ubiquitinated by CBLB in activated T-cells.

Similarity:

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

SWISS: P19174

Gene ID: 5335

Database links:

Entrez Gene: 5335Human

Entrez Gene: 18803Mouse

Entrez Gene: 25738Rat

Omim: 172420Human

SwissProt: P19174Human

SwissProt: Q62077Mouse

SwissProt: P10686Rat

Unigene: 268177Human

Unigene: 44463Mouse

Unigene: 11243Rat

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase
	by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PLC gamma 1 (Tyr771))
	Polyclonal Antibody, Unconjugated (SL3460R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.