



Rabbit Anti-PLDL1 antibody

SL4151R

Product Name:	PLDL1
Chinese Name:	磷脂酶C1样蛋白抗体
Alias:	PLDL1; PLCE; Phospholipase C deleted in lung carcinoma; Phospholipase C epsilon; Phospholipase C like 1; Phospholipase C related but catalytically inactive protein; Phospholipase C related, but catalytically inactive protein; PLCE; PLCL; PRIP; Plcl1; C230017K02Rik; KIAA1092; PLC-L; PLC-L1; PLCE; PLCL; PRIP; PRIP-1; PLCL1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	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.
Molecular weight:	123kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PLDL1:1001-1096/1096
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:	PLCL1 is involved an inositol phospholipid based intracellular signaling cascade. Shows no PLC activity to phosphatidylinositol 4,5-bisphosphate and sphatidylinositol. Component in the phospho-dependent endocytosis process of GABA A receptor (By

similarity). Regulates the turnover of receptors and thus contributes to the maintenance of GABA mediated synaptic inhibition. Its aberrant expression could contribute to the genesis and progression of lung carcinoma. Acts as an inhibitor of PPP1C.

Function:

Involved in an inositol phospholipid-based intracellular signaling cascade. Shows no PLC activity to phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol. Component in the phospho-dependent endocytosis process of GABA A receptor. Regulates the turnover of receptors and thus contributes to the maintenance of GABA-mediated synaptic inhibition. Its aberrant expression could contribute to the genesis and progression of lung carcinoma. Acts as a inhibitor of PPP1C.

Subunit:

Interacts with PPP2CA By similarity. Interacts with Ins(1,4,5)P3, Ins(1,4,5,6)P4, GABARAP, GABA receptor beta subunits, GABA receptor gamma-2 subunits and PPP1C. May form a ternary complex with GABA receptor beta subunit and GABARAP. The formation of a ternary complex with GABA receptor beta subunit and GABARAP could be the key step for facilitating the association of GABARAP with the GABA receptor gamma-2 subunit and to allow it to be transported at the right destination.

Subcellular Location:

Cytoplasmic

Tissue Specificity:

Expressed in a variety of fetal and adult organs including brain, lung and kidney. Its expression was greatly reduced in small and non-small cell lung carcinoma. Isoform 1 is predominantly expressed in brain.

Post-translational modifications:

Phosphorylated by the catalytic subunit of PKA. Phosphorylation of Thr-93 resulted in dissociation of PPP1C from PRIP1

Similarity:

Contains 1 C2 domain.
Contains 1 PH domain.
Contains 1 PI-PLC X-box domain.
Contains 1 PI-PLC Y-box domain.

SWISS:

Q15111

Gene ID:

5334

Database links:

[Entrez Gene: 5334](#) Human

[Omid: 600597](#) Human

[SwissProt: Q15111](#) Human

[Unigene: 153322](#) Human

Important Note:

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

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