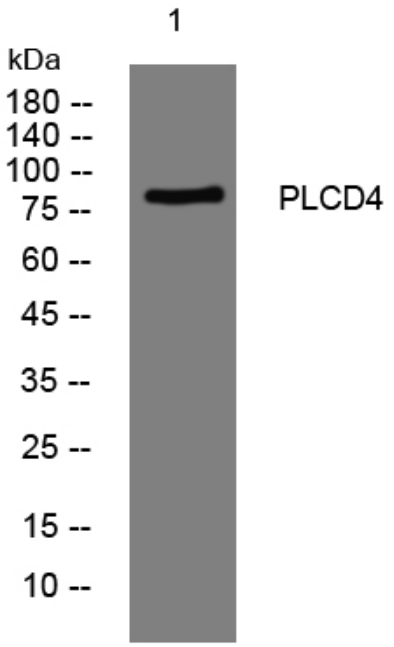
PLCD4 rabbit pAb

Catalog No	YP-Ab-08184
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	PLCD4
Protein Name	PLCD4
Immunogen	Synthesized peptide derived from human PLCD4 AA range: 82-132
Specificity	This antibody detects endogenous levels of PLCD4 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.299% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4 (hPLCD4) (EC 3.1.4.11) (Phosphoinositide phospholipase C-delta-4) (Phospholipase C-delta-4) (PLC-delta-4)
Observed Band	85kD
Cell Pathway	Membrane ; Peripheral membrane protein . Nucleus . Cytoplasm . Endoplasmic reticulum . Localizes primarily to intracellular membranes mostly to the endoplasmic reticulum.
Tissue Specificity	Highly expressed in skeletal muscle and kidney tissues, and at moderate level in intestinal tissue. Expressed in corneal epithelial cells.
Function	catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1D-myo-inositol 1,4,5-trisphosphate + diacylglycerol.,cofactor:Binds 3 calcium ions per subunit. Two of the calcium ions are bound to the C2 domain.,domain:The C2 domain mediates pre-localization to the membrane prior to Ca(2+) import and non-selective Ca(2+)-mediated targeting to various cellular membranes.,domain:The PDZ-binding motif mediates the interaction with GRIP1.,domain:The PH domain is not a critical determinant of the membrane localization.,function:Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP2) to generate 2 second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). DAG mediates the activation of protein kinase C (PKC), while IP3 releases Ca(2+) from intracellular stores. Required for acrosome reaction in sperm during fertilization, probably by acting as an

Background	This gene encodes a member of the delta class of phospholipase C enzymes. Phospholipase C enzymes play a critical role in many cellular processes by hydrolyzing phosphatidylinositol 4,5-bisphosphate into two intracellular second messengers, inositol 1,4,5-trisphosphate and diacylglycerol. Expression of this gene may be a marker for cancer. [provided by RefSeq, Jan 2011],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from HEK293 cells, primary antibody was diluted at 1:1000, 4°over night