

## Anti-PLCG1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

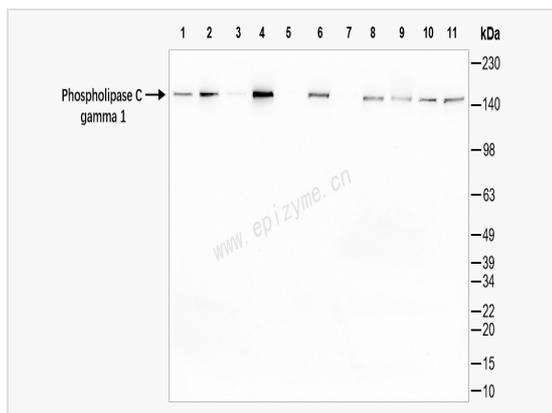
Catalog # R012895

### Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	13L80K83
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospholipase C gamma 1/PLC-gamma-1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PLCG1 Rabbit mAb [13L80K83] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	PLCG1_HUMAN; PLC gamma 1; 1 phosphatidyl D myo inositol 4 5 bisphosphate; 1 phosphatidylinositol 4 5 bisphosphate; 1 phosphatidylinositol 4 5 bisphosphate phosphodiesterase gamma 1; 1-phosphatidylinositol-4, 5-bisphosphate phosphodiesterase gamma-1; inositoltrisphosphohydrolase; monophosphatidylinositol phosphodiesterase; NCKAP3; phosphatidylinositol phospholipase C; phosphodiesterase gamma 1; phosphoinositidase C; phosphoinositide phospholipase C; phosphoinositide phospholipase C-gamma-1; phospholipase C 148; phospholipase C 148; phospholipase C gamma 1 (formerly subtype 148); phospholipase C gamma 1; phospholipase C gamma 1; phospholipase C-148; phospholipase C-gamma-1; phospholipase C-II; PLC 1; PLC 148; PLC II; PLC-148; PLC-gamma-1; PLC-II; PLC1; PLC148; PLCG 1; PLCG-1; PLCgamma1; PLCII; triphosphoinositide phosphodiesterase.
Calculated MW	Calculated MW: 149 kDa; Observed MW: 149 kDa
Uniprot ID	P19174
Gene ID	5335
Background	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]
Cellular Location	Cell projection Lamellipodium Cell projection Ruffle Rapidly redistributed to ruffles and lamellipodia structures in response to



Western Blot - Anti-PLCG1 Rabbit mAb [13L80K83]

All lanes: R012895 at 1:2,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: 293T (Human embryonic kidney cell) whole cell lysates

Lane 5: Ball-1 (Human B lymphocyte acute leukemia cell) whole cell lysates

Lane 6: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 7: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 8: Mouse brain whole tissue lysates

Lane 9: Mouse embryo whole tissue lysates

Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 11: Rat brain whole tissue lysates

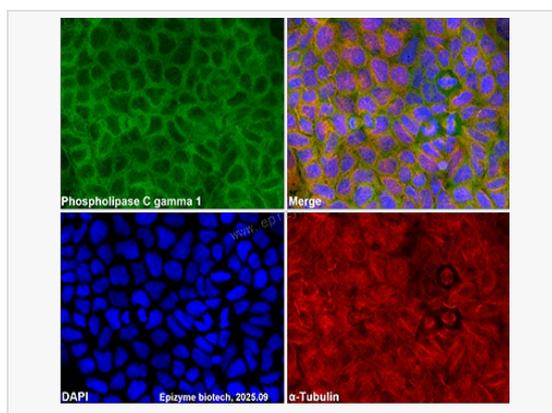
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 149 kDa

Observed band size: 149 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-PLCG1 Rabbit mAb [13L80K83]

Sample: Caco-2 cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R012895 at 1:100 dilution and  $\alpha$ -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).