Data Sheet (Cat.No.TMAC-03234)

Anti-Phospholipase C gamma 1 Antibody (7V238)

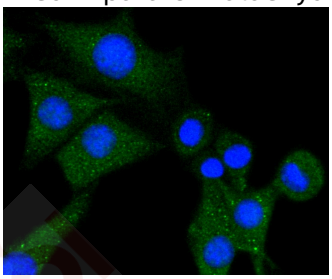
Product Details

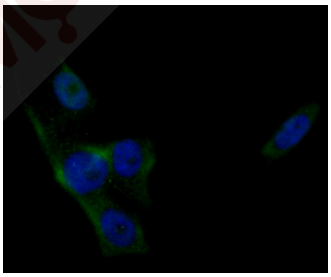
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 149 kDa.
Clone:	7V238
Purification:	ProA affinity purified

Applications

Verified Activity:

1. ICC staining PLC γ1 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
2. ICC staining PLC γ1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application:	ICC,IP,WB
Recommended	WB: 1:1000; ICC: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P19174
Synonyms:	Phospholipase C-II;Phospholipase C 148;Phosphatidylinositol phospholipase C;PLC148;PLC1; PLCG1_HUMAN;1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1;PLC-II; Plcg1;PLC-148;Phosphoinositide phospholipase C;PLC gamma 1;Phospholipase C γ 1; Phosphoinositide phospholipase C-gamma-1;Phospholipase C g 1;Phospholipase C-gamma-1; 1 phosphatidyl D myo inositol 4 5 bisphosphate;PLCgamma1;PLC-gamma-1;1 phosphatidylinositol 4 5 bisphosphate phosphodiesterase gamma 1;Phospholipase C gamma 1;Inositoltrisphosphohydrolase;Monophosphatidylinositol phosphodiesterase;PLC II; Phosphoinositidase C;NCKAP3

Research Background

Phosphoinositide-specific phospholipase C (PLC) plays a crucial role in the initiation of receptor mediated signal transduction through the generation of the two second messengers, inositol 1,4,5-triphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. There are many mammalian PLC isozymes, including PLC β1, PLC β2, PLC β3, PLC β4, PLC γ1, PLC γ2, PLC δ1, PLC δ2 and PLCε. PLC γ1 is widely distributed in bronchiolar epithelium, type I and II pneumocytes and fibroblasts of the interstitial tissue. Actin-regulatory protein Villin is tyrosine phosphorylated and associates with PLC γ1 in the brush border of intestinal epithelial cells. Villin regulates PLC γ1 activity by modifying its own ability to bind phosphatidylinositol 4,5-biphosphate. PLC γ1 binds Integrin α1/β1 and modulates Integrin α1/β-specific adhesion. PLC γ1 and Ca2+ play a direct role in VEGF-regulated endothelial growth, however this signaling pathway is not linked to FGF-mediated effects in primary endothelial cells. PLC γ1 is rapidly activated in response to growth factor stimulation and plays an important role in regulating cell proliferation and differentiation. It may also have a protective function during cellular response to oxidative stress.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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