

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat PLC-γ1.
Source	Monoclonal Rat IgG _{2A} Clone # 479819
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PLC-γ1 Phe550-His663 Accession # P19174
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PLC-γ1 (phospholipase C-gamma 1) cleaves the polar head group from the membrane lipid phosphatidyl-inositol 4,5-bisphosphate. The consequence of this reaction is the generation of two secondary messengers, inositol 1,4,5-trisphosphate and diacylglycerol, which mediate the mobilization of intracellular calcium and the activation of protein kinase C, respectively. Members of the PLC family are regulated by different signaling pathways. PLC-γ1 is regulated through receptor and non-receptor tyrosine kinases, while the PLC-β isoforms are regulated by G-protein coupled receptors.

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