

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat PLC-γ1 when phosphorylated at Y783.
Source	Monoclonal Rabbit IgG Clone # 1016D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human/mouse/rat PLC-γ1 Y783 site. Accession # P19174
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

Immunocytochemistry 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

Phospholipase C gamma-1 (PLC-γ1) is activated by receptor tyrosine kinases in response to growth factors and hormones, and phosphorylation at Tyr783 is a widely used indicator of activation. Activated PLC-γ1 catalyzes the hydrolysis of phosphatidylinositol 4,5-bisphosphate to produce the second messengers inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG). IP3 mobilizes the release of calcium while DAG activates protein kinase C. PLC-γ1 plays an important role in regulating cell proliferation and differentiation.

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