

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Phospho-PLC-γ1 (Y783) in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 764518
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human PLC-γ1 Y783 site
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

Phospholipase C gamma-1 (PLC-γ1) is activated by receptor tyrosine kinases in response to growth factors and hormones. Activated PLC-γ1 catalyzes the hydrolysis of phosphatidylinositol 4,5-bisphosphate to produce the second messengers inositol 1,4,5-triphosphate (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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