Human PLC-γ2 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 744757

Catalog Number: FAB7377T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Phospho-PLC-γ2 (Y759) in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 744757
Purification	Protein A or G purified from ascites
Immunogen	Phosphopeptide containing the human PLC-γ2 Y759 site Accession # P16885
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
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

The Phospholipase C family consists of 13 isozymes within six subfamilies, PLC-δ, -β, -γ, -ε, -ζ, and -η. PLC-γ2 (Phospholipase C gamma-2) contains 2 SH2 and 1 SH3 domains and is primarily limited to cells of hematopoietic lineage. PLC-γ2 is activated by receptor tyrosine kinases in response to growth factors, neurotransmitters, and hormones, and downstream through Lck kinase-dependent phosphorylation at Y753 and Y759. Activated PLC-γ2 catalyzes the hydrolysis of phosphatidylinositol 4, 5-biphosphate 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-γ2 is involved in collagen induced signaling in platelets and antigen-dependent signaling in B-lymphocytes. Human PLC-γ2 shares 94% and 95% sequence identity overall with mouse and rat PLC-γ2, respectively, and 100% sequence identity within the peptide immunogen.

PRODUCT SPECIFIC NOTICES

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