Human/Mouse PLC-β1 Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4466R
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PLC-β1, but does not detect recombinant human (rh) PLC-β2, rhPLC-β3, or rhPLC-β4 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human PLC-β1 Lys27-Met245 Accession # Q9NQ66
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

The Phospholipase C family consists of 13 isozymes within six subfamilies, PLC-δ, -β, -γ, -ε, -ζ, and -η. PLC-β1 (Phospholipase C beta-1) is a G-protein dependent phosphodiesterase that catalyzes the generation of inositol 1, 4, 5-trisphosphate (IP3) and diacylglycerol (DAG) from phosphatidylinositol 4, 5-bisphosphate (IP2), an essential step in the intracellular transduction of many extracellular signals. Alternative splicing results in two transcript variants encoding two isoforms, PLC-β1A and PLC-β1B. PLC-β1A is preferentially expressed in the cytosol, while PLC-β1B is predominantly expressed in the nucleus. The region used as immunogen is 100% identical in both isoforms.

PRODUCT SPECIFIC NOTICES

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