

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PLC-β3 in Western blots. Does not detect recombinant human (rh) PLC-β1, rhPLC-β2, or rhPLC-β4 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PLC-β3 Lys27-Leu246 Accession # Q01970
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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-β3 (Phospholipase C beta-3) 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. The PLC-β subfamily consists of 4 isozymes, β1-4, which differ in their tissue distribution and their ability to be activated by G proteins. PLC-β1 and PLC-β3 are more widely expressed, whereas PLC-β2 is restricted to hematopoietic cells and PLC-β4 is limited to certain neuronal cells and the retina.

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