

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PLC-δ3 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PLC-δ3 Lys148-Ala344 Accession # Q8N3E9
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.

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

PLC-δ3 (phospholipase C-delta 3) is an 105 kDa member of the δ-type PLC isozyme family. It is expressed in corneal epithelium, platelets, cardiac and skeletal muscle. PLC-δ3 preferentially hydrolyzes membrane PIP2. This generates IP3, which induces intracellular Ca⁺⁺ release, and DAG, activating PKC. Human PLC-δ3 is 789 amino acids (aa) in length. It contains a plextrin homology domain that tethers the enzyme to the membrane (aa 63-172), three EF-hand motifs that spatially orient the molecule (aa 182-285), a catalytic region (aa 337-644), and a C2 domain that secures the catalytic region to its substrate (aa 647-752). There are multiple potential isoforms. There is an alternate start site at Met54, a 40 aa substitution for the C-terminal 248 aa, and a Leu substitution for aa 102-109. Over aa 148-344, human PLC-δ3 is 93% aa identical to mouse PLC-δ3.

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