

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and, rat PLC-β4 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PLC-β4 Lys75-Gln250 Accession # Q15147
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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-β4 (phospholipase C-beta 4; also PLCretA) is a 130 kDa member of the β-type PLC isozyme family. It is notably expressed in cerebellum and retina. PLC-β4 is associated with rhodopsin family GPCRs, where activation of Gq subunits initiates PLC-β4 hydrolysis of PIP2. Human PLC-β4 is 1175 amino acids (aa) in length. It contains a catalytic X-box (aa 313-463) and Y-box (aa 565-681), followed by a calcium-binding C2 domain (aa 688-786). There are multiple isoforms. One shows an alternate start site at Met114, a second contains a 40 aa substitution for the C-terminal 22 aa, a third shows a 14 aa substitution for the N-terminal 167 aa, and other forms demonstrate combinations of these alternative splice forms. Over aa 75-250, human PLC-β4 is 97% aa identical to mouse PLC-β4.

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