

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PKC δ in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PKC δ His549-Asp676 Accession # Q05655
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

PKC δ (protein kinase C-delta) is a 78 kDa member of the PKC subfamily, AGC Ser/Thr protein kinase family of enzymes. It is a Ca⁺⁺-independent and phospholipid-dependent ubiquitous enzyme that participates in cellular apoptosis. Human PKC δ is 676 amino acids (aa) in length. It contains two general regions: a phosphotyrosine and DAG-type 2 binding region (aa's 1-90 and 159-208, respectively), and an ATP-binding catalytic region (aa 349-603). Functionally, inactive cytoplasmic PKC δ is first activated by Tyr64 and Tyr155 phosphorylation. This induces PKC δ entry into the nucleus, where it is cleaved into 43 kDa and 36 kDa fragments, initiating apoptosis. There are two potential alternate start sites for PKC δ at Met51 and Met74. In some cells, a poorly characterized 160 kDa form of PKC δ has been noted. Over aa 549-676, human PKC δ is 85% aa identical to mouse PKC δ .

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.