

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PKCγ in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PKCγ Arg621-Met697 Accession # P05129
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

PKCγ (protein kinase C-gamma) is a 78-80 kDa member of the PKC subfamily, AGC Ser/Thr protein kinase family of enzymes. It is a Ca⁺⁺-activated and phospholipid-dependent neuronal enzyme that catalyzes the phosphorylation of multiple proteins. Human PKCγ is 697 amino acids (aa) in length. It contains two general regions: a lipid and Ca⁺⁺-binding regulatory region (aa 35-150 and 170-260, respectively), and an ATP-binding catalytic region (aa 351-614). PDK1-mediated phosphorylation of PKCγ on Thr514 activates the enzyme. In addition, oxidative stress also mediates activation by inducing interchain disulfide-bond homodimerization. Over aa 621-697, human PKCγ is 99% and 95% aa identical to mouse and canine PKCγ, respectively. PKCγ is predominantly expressed in brain tissue.

PRODUCT SPECIFIC NOTICES

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