

DESCRIPTION

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| 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 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

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| 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.

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