Human/Mouse/Rat PKCγ Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5130

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	*E. coli*-derived recombinant human PKCγ Arg621-Met697 Accession # P05129
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

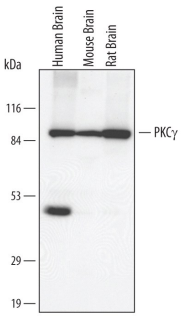
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human/Mouse/Rat PKCγ by Western Blot. Western blot shows lysates of human, mouse, and rat brain tissue. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat PKCγ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5130) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for PKCγ at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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