Human PKCε Antibody

Monoclonal Mouse IgG_{2B} Clone # 666843

Catalog Number: MAB51341

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PKCε in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 666843
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PKCε Gln580-Pro737 Accession # Q02156
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.

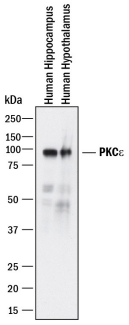
APPLICATIONS

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	2 µg/mL	See Below

DATA

Western Blot



Detection of Human PKCε by Western Blot. Western blot shows lysates of Human brain (hippocampus) tissue and human brain (hypothalamus) tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human PKCε Monoclonal Antibody (Catalog # MAB51341) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for PKCε at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

PKCε (protein kinase C-epsilon) is an 87 kDa member of the novel PKC subfamily, AGC Ser/Thr protein kinase family of enzymes. It is a widely-expressed Ca^{++}-insensitive, phospholipid-dependent enzyme that catalyzes the phosphorylation of multiple proteins. Human PKCε is 737 amino acids (aa) in length. It contains two general regions: a non-Ca^{++}-binding plus lipid binding regulatory region (aa 1-99 and 169-292, respectively), and an ATP-binding catalytic domain (aa 408-668). Phosphorylation of PKCε on Thr566, Ser368 and Ser729 activates the enzyme and increases its molecular weight to 92 kDa. One potential splice form shows a 114 aa substitution for aa 118-737. Over aa 580-737, human PKCε is 98% and 99% aa identical to mouse and canine PKCε, respectively.

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