

DESCRIPTION

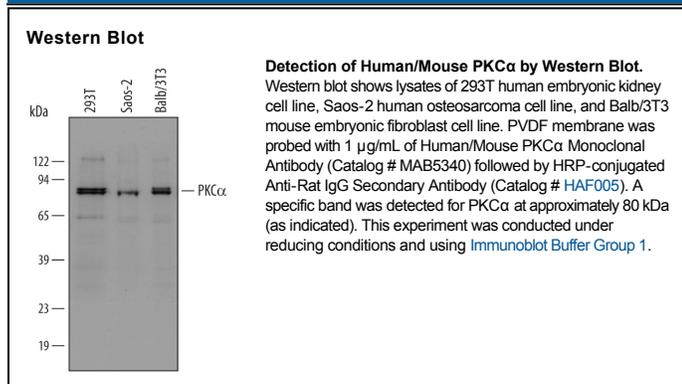
Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse PKC α in Western blots.
Source	Monoclonal Rat IgG _{2B} Clone # 421810
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PKC α Lys604-Val672 Accession # P17252
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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 μ g/mL	See Below

DATA



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. <ul style="list-style-type: none"> ● 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

PKC α (Protein kinase C alpha) is an 80 kDa member of the PKC subfamily, AGC Ser/Thr protein kinase family of enzymes. It is widely expressed, and serves multiple cell-specific functions. PKC α is activated by increased diacylglycerol and intracellular calcium, and translocates to several sites such as the Golgi, nucleus and plasma membrane. Human PKC α contains two zinc finger regions (aa 36-151), a protein kinase domain (aa 339-557), and an AGC kinase region (aa 598-668). Phosphorylations on Thr497, Thr638 and Ser657 are necessary for kinase activity. Over aa 604-672, human PKC α shows 100% aa identity to mouse PKC α .