

DESCRIPTION

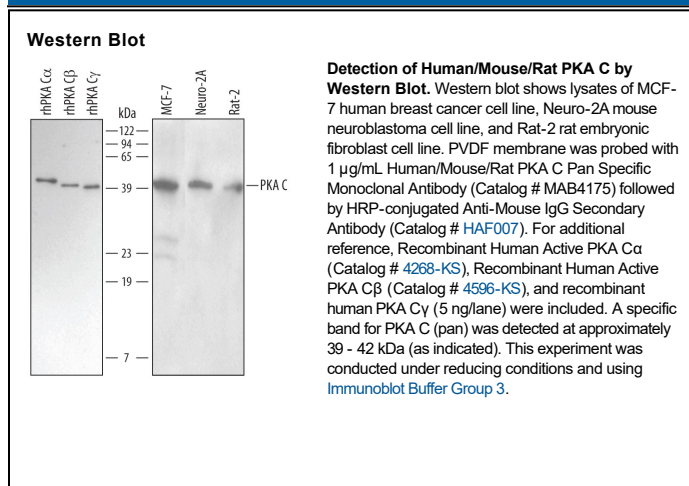
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human PKA C α , C β , and C γ as well as endogenous human, mouse, and rat PKA C isoforms at 39-42 kDa using Western blot.
Source	Monoclonal Mouse IgG _{2A} Clone # 485013
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PKA C γ Met1-Phe351 Accession # ABM84853
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 either lyophilized or 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

The cAMP-dependent protein kinase (PKA) holoenzyme is composed of two regulatory and two catalytic subunits, designated PKA R and PKA C, respectively. Three catalytic subunit isoforms, C α , C β , and C γ , have been identified. Upon PKA R subunit binding to the second messenger cAMP, active PKA C subunits are released, initiating a phosphorylation cascade that regulates such cellular functions as metabolism, ion transport, and gene transcription.