Human/Mouse/Rat PKA Cα/β Antibody

Monoclonal Mouse IgG_{2A} Clone # 515741

Catalog Number: MAB5908

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat PKA Cα/β in Western blots.
Source	Monoclonal Mouse IgG_{2A} Clone # 515741
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PKA Cα Met1-Phe351 Accession # P17612
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.

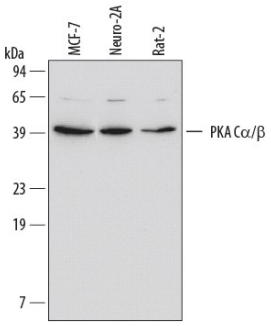
APPLICATIONS

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	0.2 µg/mL	See Below

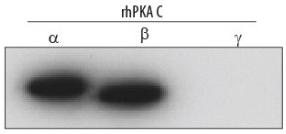
DATA

Western Blot



Detection of Human/Mouse/Rat PKA Cα/β by Western Blot.
Western blot shows lysates of MCF-7 human breast cancer cell line, Neuro-2A mouse neuroblastoma cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 0.2 µg/mL Mouse Anti-Human/Mouse/Rat PKA Cα/β Monoclonal Antibody (Catalog # MAB5908) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band for PKA Cα/β was detected at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Western Blot



Detection of Human PKA Cα/β by Western Blot.
Western blot shows Recombinant Human Active PKA Cα (Catalog # 4268-KS), Recombinant Human Active PKA Cβ (Catalog # 4596-KS), and recombinant human PKA Cγ (1 ng/lane each). PVDF membrane was probed with 0.2 µg/mL Mouse Anti-Human/Mouse/Rat PKA Cα/β Monoclonal Antibody (Catalog # MAB5908) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

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

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, Cα, Cβ, and Cγ, 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.

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