

## Human/Mouse/Rat PKA Cα/β Antibody

Monoclonal Mouse IgG<sub>2A</sub> Clone # 515741 Catalog Number: MAB5908

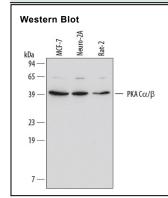
DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human, mouse, and rat PKA Cα/β in Western blots.	
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 515741	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human PKA Cα 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.

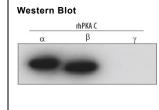
	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below

#### DATA



# Detection of Human/Mouse/Rat PKA $\text{C}\alpha/\beta$ 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  $\mu$ g/mL Mouse Anti-Human/Mouse/Rat PKA Ca/ $\beta$  Monoclonal Antibody (Catalog # MAB5908) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band for PKA Ca/ $\beta$  was detected at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.



### Detection of Human PKA $C\alpha/\beta$ by Western Blot.

Western blot shows Recombinant Human Active PKA C $\alpha$  (Catalog # 4268-KS), Recombinant Human Active PKA C $\alpha$  (Catalog # 4596-KS), and recombinant human PKA C $\gamma$  (1 ng/lane each). PVDF membrane was probed with 0.2  $\mu$ g/mL Mouse Anti-Human/Mouse/Rat PKA C $\alpha$ / $\beta$  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

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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 man

- 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,  $C\alpha$ ,  $C\beta$ , and  $C\gamma$ , 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.

