

# Human/Mouse/Rat PKA C Pan Specific **Antibody**

Monoclonal Mouse  $IgG_{2A}$  Clone # 485013

Catalog Number: MAB4175

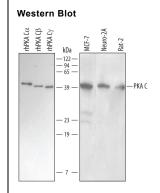
| DESCRIPTION        |  |  |
|--------------------|--|--|
| Species Reactivity | Human/Mouse/Rat  |  |
| Specificity        | Detects human PKA Cα, Cβ, and Cγ as well as endogenous human, mouse, and rat PKA C isoforms at 39-42 kDa using Western blot.   |  |
| Source             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 485013  |  |
| Purification       | Protein A or G purified from hybridoma culture supernatant   |  |
| Immunogen          | E. coli-derived recombinant human PKA Cγ Met1-Phe351 Accession # ABM84853  |  |
| 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 either lyophilized or 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<br>Concentration | Sample    |
|--------------|------------------------------|-----------|
| Western Blot | 1 μg/mL                      | See Below |

## DATA



Detection of Human/Mouse/Rat PKA C 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 1 μg/mL Human/Mouse/Rat PKA C Pan Specific Monoclonal Antibody (Catalog # MAB4175) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, Recombinant Human Active PKA Cα (Catalog # 4268-KS), Recombinant Human Active PKA Cβ (Catalog # 4596-KS), and recombinant human PKA Cγ (5 ng/lane) were included. A specific band for PKA C (pan) was detected at approximately 39 - 42 kDa (as indicated). 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

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, Ca, 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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