RD SYSTEMS a biotechne brand

Human/Mouse PKA RIIα Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2394D Catalog Number: MAB8000

DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human PKA RIIa in direct ELISAs. Detects human and mouse PKA RIIa in Western blots.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 2394D		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	Synthetic peptide containing Human/Mouse PKA RIIα Accession # P13861		
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.		

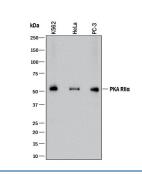
APPLICATIONS

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.

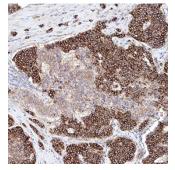
	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunocytochemistry	8-25 μg/mL	See Below
Immunohistochemistry	0.3-25 μg/mL	Immersion fixed paraffin-embedded sections of human pancreatic cancer tissue

DATA

Western Blot



Immunocytochemistry



PKA RIIg in Human Pancreatic Cancer Tissue. PKA RIIa was detected in immersion fixed paraffin-embedded sections of human pancreatic cancer tissue using Rabbit Anti-Human/Mouse PKA RIIα Monoclonal Antibody (Catalog # MAB8000) at 0.3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in cancer cells. View our protocol for IHC Staining with VisUCyte HRP Polymer

Detection of Human PKA Rlla by

cancer cell line. PVDF membrane was

probed with 0.5 µg/mL of Rabbit Anti-

Human/Mouse PKA RIIa Monoclonal

band was detected for PKA RIIa at

Group 1.

Antibody (Catalog # MAB8000) followed by

Antibody (Catalog # HAF008). A specific

approximately 50 kDa (as indicated). This

experiment was conducted under reducing

conditions and using Immunoblot Buffer

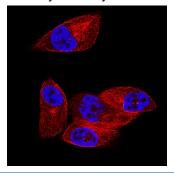
HRP-conjugated Anti-Rabbit IgG Secondary

Western Blot. Western blot shows lysates of

carcinoma cell line, and PC-3 human prostate

K562 human chronic myelogenous leukemia cell line. HeLa human cervical epithelial

Immunocytochemistry



PKA Rllα in MDA-MB-231 Human Cell Line. PKA Rllα was detected in immersion fixed MDA-MB-231 human breast cancer cell line using Rabbit Anti-Human/Mouse PKA Rllα Monoclonal Antibody (Catalog # MAB8000) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Detection Reagents. 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 • 0 °C under sterile conditions after reconstitution.

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BACKGROUND

PRKAR2 is a regulatory subunit of the cAMP-dependent protein kinases involved in CAMP signaling in cells. Four types of regulatory chains are found and their expression varies among tissues. In some cases expression is constitutive and in other cases it is inducible. PRKAR2 seems to be involved in both endosome-to-Golgi and Golgi-to-ER transport.

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