



# **Protein Kinase A II alpha, Regulatory Subunit (Protein Kinase A RII alpha Subunit, Protein Kinase cAMP-dependent Regulatory Type II alpha, PRKAR2A, PRKAR2, PKR2, KAP2, MGC3606)**

## **Catalog number**

P9102-91M3

## **Supplier**

United States Biological

The cAMP-dependent protein kinase (PKA) is a critical kinase involved in numerous biological functions. The PKA holoenzyme is composed of two regulatory and two catalytic subunits designated as PKA R and PKA C respectively. PKA R subunits exist as two classes, RI and RII, each containing two isoforms,  $\alpha$  and  $\beta$ . On the other hand, PKA C has three identified subunit isoforms, C $\alpha$ , C $\beta$ , and C $\gamma$ , have been identified. The PKA R subunits allow a range of modifying agents to influence PKA activity and localization. They are found in different levels with tissue specificity. Following the bindings between PKA R subunits and the second messenger cAMP, active PKA C subunits are released, initiating a phosphorylation cascade that regulates many cellular functions such as metabolism, ion transport, and gene transcription.

## **Applications**

Suitable for use in Western Blot. Other applications not tested.

## **Recommended Dilution**

Western Blot: 0.5-2 $\mu$ g/ml  
Optimal dilutions to be determined by the researcher.

## **Storage and Stability**

Lyophilized powder may be stored at -20°C. Reconstitute with sterile 40-50% glycerol, aliquot and store at -20°C. Reconstituted product is stable for 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

## **Immunogen**

Synthetic peptide (KLH). derived from human PKA regulatory II $\alpha$  subunit (PKA RII $\alpha$ ).

## **Formulation**

Supplied as a lyophilized powder in PBS, pH 7.4, 0.02% sodium azide.

## **Purity**

Purified by immunoaffinity chromatography.

## **Specificity**

Recognizes endogenous levels of human PKA regulatory subunit RII $\alpha$  (PKA RII $\alpha$ ) protein.

## **Product Type**



Pab

**Source**

human

**Isotype**

IgG

**Grade**

Affinity Purified

**Applications**

WB

**Crossreactivity**

Hu

**Storage**

-20°C