

# Product Name: PKA IIβ reg (phospho Ser113) Rabbit Polyclonal Antibody Catalog #: APRab05251

For research use only.

#### **Summary**

**Description** Rabbit polyclonal Antibody

**Host** Rabbit

**Application** WB,IHC,ICC/IF,ELISA

**Reactivity** Human, Mouse, Rat, Monkey

ConjugationUnconjugatedModificationPhosphorylated

**Isotype** IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer** 

preservative N.

**Purification** Affinity purification

## **Application**

**Dilution Ratio** WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000

Molecular Weight 46kDa

# **Antigen Information**

Gene Name PRKAR2B

Alternative Names PRKAR2B; cAMP-dependent protein kinase type II-beta regulatory subunit

 Gene ID
 5577.0

 SwissProt ID
 P31323

The antiserum was produced against synthesized peptide derived from human PKA-R2 beta Immunogen

around the phosphorylation site of Ser113. AA range:79-128

### **Background**

cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-

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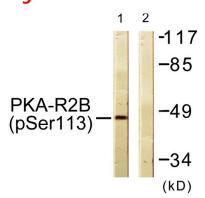


dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. This subunit has been shown to interact with and suppress the transcriptional activity of the cAMP responsive element binding protein 1 (CREB1) in activfunction:Type II regulatory chains mediate membrane association by binding to anchoring proteins, including the MAP2 kinase,,PTM:Phosphorylated by the activated catalytic chain,,similarity:Belongs to the cAMP-dependent kinase regulatory chain family,,similarity:Contains 2 cyclic nucleotide-binding domains,,subunit:The inactive form of the enzyme is composed of two regulatory chains and two catalytic chains. Activation by cAMP produces two active catalytic monomers and a regulatory dimer that binds four cAMP molecules,,tissue specificity:Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible.,

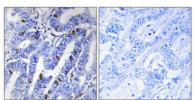
#### **Research Area**

Apoptosis Inhibition; Apoptosis Mitochondrial; Apoptosis Overview; Insulin Receptor;

# **Image Data**



Western blot analysis of lysates from COS7 cells treated with PMA 125ng/ml 30 ', using PKA-R2 beta (Phospho-Ser113) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded Human colon cancer. Antibody was diluted at 1:100 (4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

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