

## PKA II $\beta$ reg (Phospho Ser113) Rabbit pAb

CatalogNo: YP0360 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat, Monkey

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 46kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:10000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human PKA-R2 beta around the phosphorylation site of Ser113. AA range:79-128

**Specificity** Phospho-PKA II $\beta$  reg (S113) Polyclonal Antibody detects endogenous levels of PKA II $\beta$  reg protein only when phosphorylated at S113. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RASVC

## | Target Information

**Gene name** PRKAR2B

**Protein Name** cAMP-dependent protein kinase type II-beta regulatory subunit

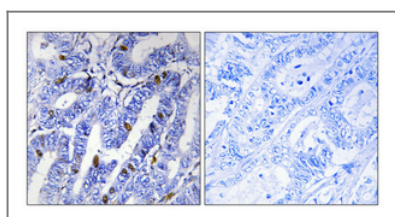
| Organism | Gene ID                 | UniProt ID               |
|----------|-------------------------|--------------------------|
| Human    | <a href="#">5577</a> ;  | <a href="#">P31323</a> ; |
| Mouse    | <a href="#">19088</a> ; | <a href="#">P31324</a> ; |
| Rat      | <a href="#">24679</a> ; | <a href="#">P12369</a> ; |

**Cellular Localization** Cytoplasm . Cell membrane . Colocalizes with PJA2 in the cytoplasm and at the cell membrane.

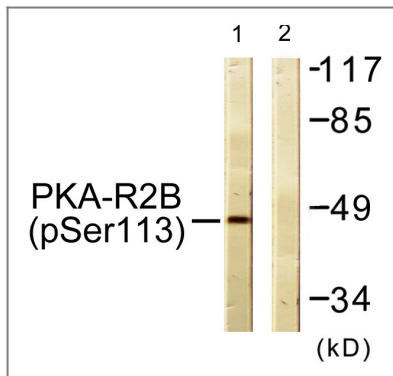
**Tissue specificity** Four types of regulatory chains are found: I-alpha , I-beta , II-alpha , and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible.

**Function** Function: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. ,

## | Validation Data



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



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.

## Contact information

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**PKA II $\beta$  reg  
(Phospho Ser113)  
Rabbit pAb**

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