

**PKA II $\beta$  reg rabbit pAb****Cat#: orb766092 (Manual)**

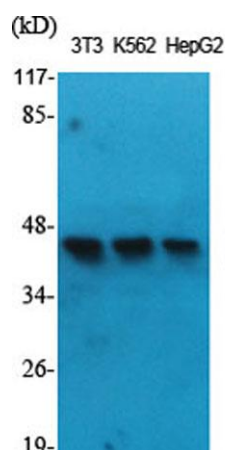
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<b>Product Name</b>	PKA II $\beta$ reg rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PKA-R2 beta. AA range:79-128
<b>Specificity</b>	PKA II $\beta$ reg Polyclonal Antibody detects endogenous levels of PKA II $\beta$ reg protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	cAMP-dependent protein kinase type II-beta regulatory subunit
<b>Gene Name</b>	PRKAR2B
<b>Cellular localization</b>	Cytoplasm . Cell membrane . Colocalizes with PJA2 in the cytoplasm and at the cell membrane.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	46kD
<b>Human Gene ID</b>	5577
<b>Human Swiss-Prot Number</b>	P31323
<b>Alternative Names</b>	PRKAR2B; cAMP-dependent protein kinase type II-beta regulatory subunit

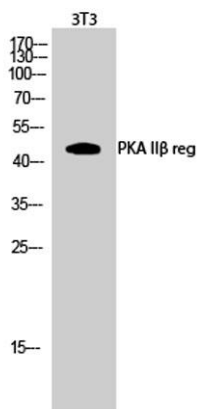
### Background

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

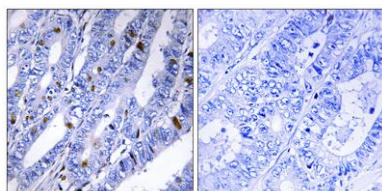


PKA II $\beta$  reg

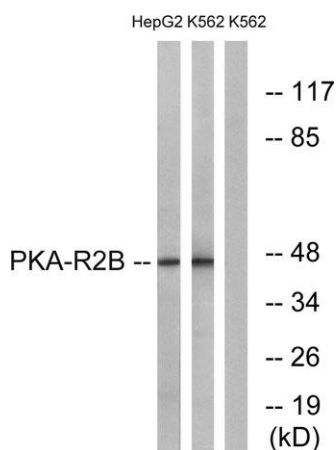
Western Blot analysis of various cells using PKA II $\beta$  reg Polyclonal Antibody



**Western Blot analysis of 3T3 cells using PKA II $\beta$  reg Polyclonal Antibody**



**Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using PKA-R2 beta Antibody. The picture on the right is blocked with the synthesized peptide.**



**Western blot analysis of lysates from K562 and HepG2 cells, using PKA-R2 beta Antibody. The lane on the right is blocked with the synthesized peptide.**