BT LAB
Bioassay Technology Laboratory
Optimize Your Research

PKA II Beta reg Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP07200
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human PKA-R2 beta. AA range:79-128
Mol wt	46346
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	PKA IIbeta reg Antibody
Synonyms	PRKAR2B; cAMP-dependent protein kinase type II-beta regulatory subunit

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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. Protein kinase cAMP-dependent type II regulatory subunit beta encoded by PRKAR2B 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 activated T cells. Knockout studies in mice suggest that this subunit may play an important role in regulating energy balance and adiposity. The studies also suggest that this subunit may mediate the gene induction and cataleptic behavior induced by haloperidol.

Recommended Dilution

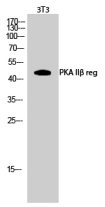
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

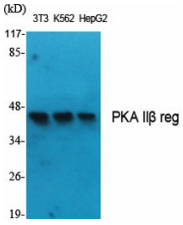
ELISA: 1: 10000

Not yet tested in other applications.

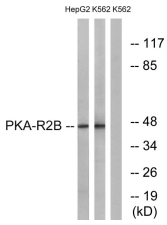
Images



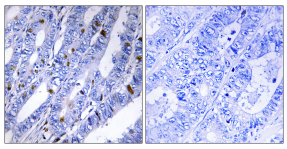
Western Blot analysis of 3T3 cells using PKA IIβ reg Polyclonal Antibody



Western Blot analysis of various cells using PKA IIβ reg Polyclonal Antibody



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.



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.

Storage

-20°C for one year

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