

Product datasheet for AP53444PU-N

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

PRKAR2B (Center) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WE

Recommended Dilution: ELISA: 1/1000.

Western Blot: 1/100 - 1/500.

Reactivity: Human Host: Rabbit

Isotype: lg

Clonality: Polyclonal

Immunogen: KLH conjugated synthetic peptide between 118-147 amino acids from the Central region of

human PRKAR2B

Specificity: This antibody reacts to PRKAR2B.

Formulation: PBS

State: Aff - Purified

State: Liquid purified Ig fraction

Preservative: 0.09% (W/V) sodium azide

Concentration: lot specific

Purification: Affinity chromatography on Protein A

Conjugation: Unconjugated

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 46302 Da

Gene Name: protein kinase cAMP-dependent type II regulatory subunit beta

Database Link: Entrez Gene 5577 Human

P31323





Background:

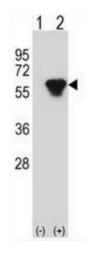
cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory 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 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. [provided by RefSeq].

Synonyms: PRKAR2

Protein Families: Druggable Genome

Protein Pathways: Apoptosis, Insulin signaling pathway

Product images:



Western blot analysis of PRKAR2B (arrow) using rabbit polyclonal PRKAR2B Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRKAR2B gene.