Datasheet for ABIN6243845

anti-PRKACB antibody (N-Term)

3 Images

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Overview

Quantity:	400 µL
Target:	PRKACB
Binding Specificity:	AA 14-43, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKACB antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PKA C-beta (PRKACB) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-43 amino acids from the N-terminal region of human PKA C-beta (PRKACB).
Clone:	RB3546
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PRKACB
Alternative Name:	PKA C-beta (PRKACB) (PRKACB Products)

Target Details

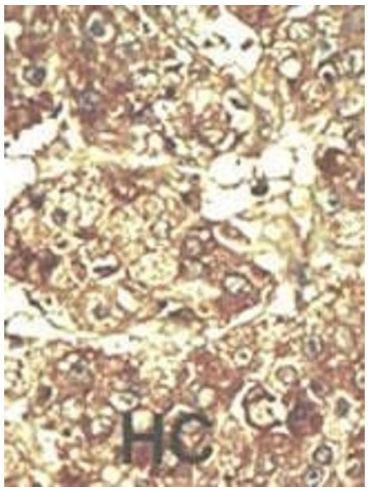
Background:	CAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase (AMPK), which transduces the signal through phosphorylation of different target proteins. The inactive holoenzyme of AMPK is a tetramer composed 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 of AMPK have been identified in humans. PRKACB is a member of the Ser/Thr protein kinase family and is a catalytic subunit of AMPK.
Molecular Weight:	40623
NCBI Accession:	NP_001229786, NP_001229787, NP_001229788, NP_001229789, NP_001229790, NP_001229791, NP_002722, NP_891993, NP_997461
UniProt:	P22694
Pathways:	AMPK Signaling, Hedgehog Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, Myometrial Relaxation and Contraction, M Phase, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma, Lipid Metabolism

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

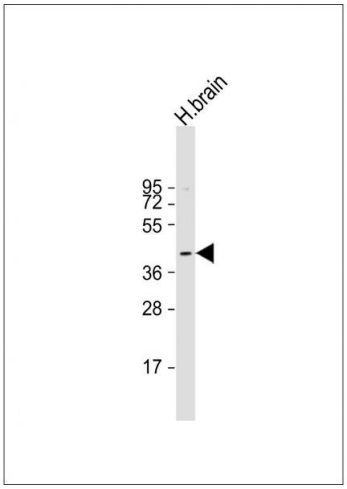
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months



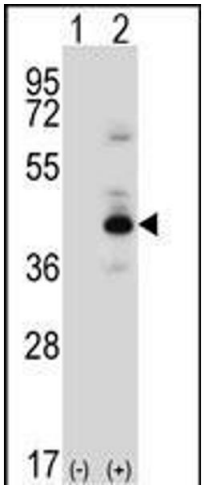
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Anti-PRKACB Antibody (K29) at 1:1000 dilution + human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. Western blot analysis of PRKACB (arrow) using rabbit polyclonal PRKACB Antibody (K29) (ABIN6243845 and ABIN6578978). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRKACB gene.