Datasheet for ABIN7138793

anti-PRKACA antibody (pThr197)

3 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	PRKACA
Binding Specificity:	pThr197
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKACA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 197(R-T-W(p)-T-L) derived from Human PKA alpha/beta CAT.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi

Target Details

Target:	PRKACA
Alternative Name:	PRKACA (PRKACA Products)

Target Details

Background:	Background: Phosphorylates a large number of substrates in the cytoplasm and the nucleus. Regulates the abundance of compartmentalized pools of its regulatory subunits through phosphorylation of PJA2 which binds and ubiquitinates these subunits, leading to their subsequent proteolysis. Phosphorylates CDC25B, ABL1, NFKB1, CLDN3, PSMC5/RPT6, PJA2, RYR2, RORA and VASP. RORA is activated by phosphorylation. Required for glucose-mediated adipogenic differentiation increase and osteogenic differentiation inhibition from osteoblasts. Ghislaine Garrel, Endocrinology, Jun 1997, 138: 2259. W Li, Learn. Mem., Jan 1996, 2: 320 - 333. Sharmin Schauble, J. Biol. Chem., May 2007, 282: 14952 - 14959. Yong G. Wang, J. Gen. Physiol., Jan 1998, 111: 113. Aliases: cAMP dependent protein kinase alpha catalytic subunit antibody, cAMP dependent protein kinase beta catalytic subunit antibody, cAMP dependent protein kinase catalytic beta subunit isoform 4ab antibody, cAMP dependent protein kinase catalytic subunit alpha antibody, cAMP dependent protein kinase catalytic subunit alpha, isoform 1 antibody, cAMP dependent protein kinase catalytic subunit beta antibody, cAMP-dependent protein kinase catalytic subunit alpha antibody, KAPCA_HUMAN antibody, PKA C alpha antibody, PKA C beta antibody, PKA C-alpha antibody, PKACA antibody, PKACB antibody, PPNAD4 antibody, PRKACA antibody, PRKACAA antibody, PRKACB antibody, Protein kinase A catalytic subunit alpha antibody, Protein kinase A catalytic subunit antibody, Protein kinase A catalytic subunit beta antibody, Protein kinase, cAMP dependent, catalytic, alpha antibody, Protein kinase, cAMP dependent, catalytic, beta antibody
UniProt:	P17612
Pathways:	NF-kappaB Signaling, Hedgehog Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, Carbohydrate Homeostasis, Myometrial Relaxation and Contraction, M Phase, G-protein mediated Events, Signaling Events mediated by VEGFR1 and VEGFR2, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, VEGFR1 Specific Signals, Lipid Metabolism, SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,
Restrictions:	For Research Use only

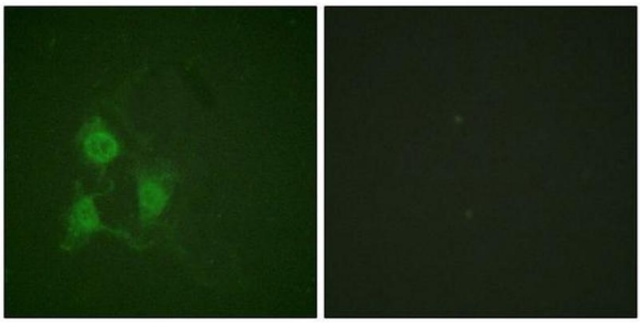
Handling

Format:	Liquid

Handling

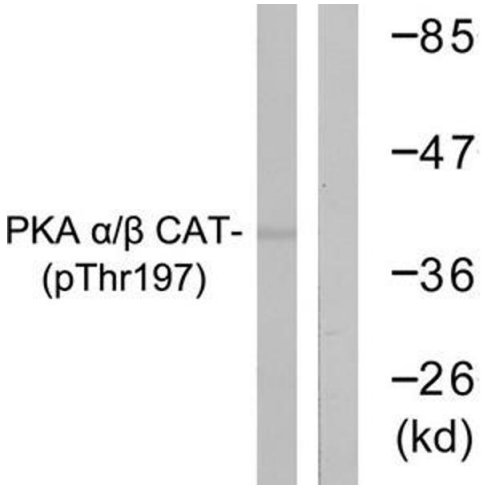
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



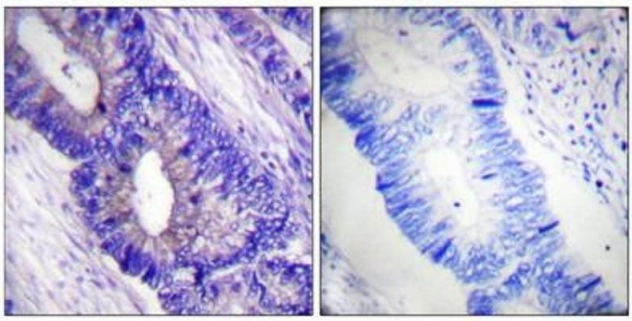
Immunofluorescence

Image 1. Immunofluorescence staining of methanol-fixed A549 cells using PKA α/β CAT (Phospho-Thr197) Antibody.



Western Blotting

Image 2. Western blot analysis of extracts from mouse brain cells using PKA α/β CAT (Phospho-Thr197) Antibody.The lane on the right is treated with the antigen-specific peptide.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using PKA α/β CAT (Phospho-Thr197) antibody (left)or the same antibody preincubated with blocking peptide (right).

