

Datasheet for ABIN7269661
anti-PRKAR2A antibody (pSer99)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	PRKAR2A
Binding Specificity:	pSer99
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PRKAR2A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Phospho-PKA RI α (PRKAR2A)-S99 Rabbit mAb
Immunogen:	A phospho specific peptide corresponding to residues surrounding S99 of human PRKAR2A/PKR2
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Phosphorylated Antibodies
Purification:	Affinity purification

Target Details

Target:	PRKAR2A
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Target Details

Alternative Name:	PRKAR2A (PRKAR2A Products)
Background:	<p>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. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER). [provided by RefSeq, Jul 2008],PKR2, PRKAR2,Apoptosis,Apoptosis_Inhibition of Apoptosis,Apoptosis_Mitochondrial Control of Apoptosis,Cancer,Cell Biology & Developmental Biology,Cytoskeleton,Cytoskeleton_Actins,Endocrine & Metabolism,G protein signaling,G protein signaling_G-Protein-Coupled Receptors Signaling to MAPK/Erk,Insulin Receptor Signaling Pathway,Kinase,MAPK-Erk Signaling Pathway,Neurodegenerative Diseases,Neurodegenerative Diseases_Dopamine Signaling in Parkinsons Disease,Neuroscience,Signal Transduction,PRKAR2A</p>
Molecular Weight:	51kDa
Gene ID:	5576
UniProt:	P13861
Pathways:	Hedgehog Signaling , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Myometrial Relaxation and Contraction , G-protein mediated Events , Interaction of EGFR with phospholipase C-gamma , SARS-CoV-2 Protein Interactome , The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

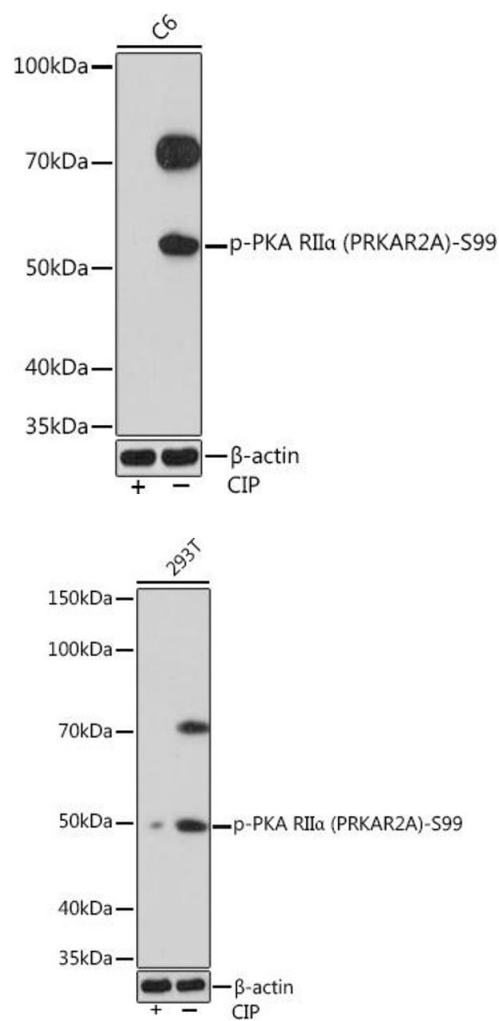
Handling

Format:	Liquid
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Handling

Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
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
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of C6 cells, using Phospho-PKA RIIα (PRKA)-S99 Rabbit mAb (ABIN7269661) at 1:1000 dilution.C6 cells were treated by CIP(20uL/400 μL) at 37 °C for 1 hour.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 μg per lane.Blocking buffer: 3 % BSA.Detection: ECL Basic Kit (RM00020).Exposure time: 3 min.

Western Blotting

Image 2. Western blot analysis of extracts of 293T cells, using Phospho-PKA RIIα (PRKA)-S99 Rabbit mAb (ABIN7269661) at 1:1000 dilution.293T cells were treated by CIP(20uL/400 μL) at 37 °C for 1 hour.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 μg per lane.Blocking buffer: 3 % BSA.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.