

Datasheet for ABIN302080 anti-PRKACA antibody

Image



Overview

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Quantity:	0.1 mg
Target:	PRKACA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRKACA antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Immunogen:	Peptide corresponding to amino acids ESPAQNTAHLDQFERIK of human proteinkinase A c
	alpha (PKAc alpha).
Clone:	6D2-1
lsotype:	lgG1
Specificity:	The mouse monoclonal antibody 6D2.1 strongly reacts with human proteinkinase A (an
	intracellular antigen) catalytic (PKAc) alpha subunit, and weakly with PKAc gamma subunit
	(both around 40 kDa). The recognized epitope of PKAc alpha is identical between man, sheep,
	pig, ox and dog.
Cross-Reactivity (Details):	Human, Other not determined
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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## Target Details

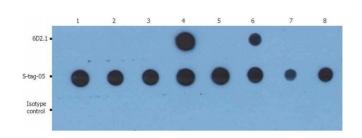
Target:	PRKACA
Alternative Name:	PKAc (PRKACA Products)
Background:	Protein kinase cAMP-activated catalytic subunit al,Protein kinase A (PKA, cAMP-dependent
	protein kinase) is a key element of a ubiquitous signaling pathway important in the cell cycle,
	cellular communication, memory formation and behavior. PKA is composed of two catalytic
	(PKAc, proteinkinase A catalytic subunit) and two regulatory subunits (PKAr). Upon binding
	cAMP, the complex dissociates to PKAr dimer and two activated PKAc ser/thr protein kinase
	catalytic monomers. The released PKAc can translocate into the nucleus and exert a regulatory
	role in the activation of multiple nuclear hormone receptors. However, PKAc-mediated
	activation of tonicity-dependent gene expression is cAMP independent. Humans express three
	types of PKAc subunit –, PKAc alpha is present in most human tissues, PKAc beta and gamma
	are tissue-specific, the later is found in testes.,PKACA, PPNAD4, PRKACA, Proteinkinase Ac
Gene ID:	5566
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:	Western blotting: Recommended dilution: 1 µg/mL, positive control: HeLa human cervix
	carcinoma cell line. To detect PKAc gamma, use a more concentrated lysate from a tissue
	expressing this subunit (testis).
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Buffer: Preservative:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide Sodium azide

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## Handling

	should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Images



## Dot Blot

**Image 1.** Dot Blot analysis of GST and GST-fusion proteins using anti-PKAc (6D2.1) and anti-GST (S-tag-05