



[Go to Product page](#)

Datasheet for ABIN2683009
anti-PRKACA antibody (AA 1-120)

3 Images

Overview

Quantity:	0.1 mg
Target:	PRKACA
Binding Specificity:	AA 1-120
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Purified recombinant fragment of human PRKACA (AA: 1-120) expressed in E. coli.
Clone:	7H3A4
Isotype:	IgG1
Purification:	purified

Target Details

Target:	PRKACA
Alternative Name:	PRKACA (PRKACA Products)
Background:	Description: 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

Target Details

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 a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

Aliases: PKACA

Molecular Weight: 40.6 kDa

Gene ID: 5566

HGNC: 5566

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: ELISA: 1:10000, WB: 1:500 - 1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

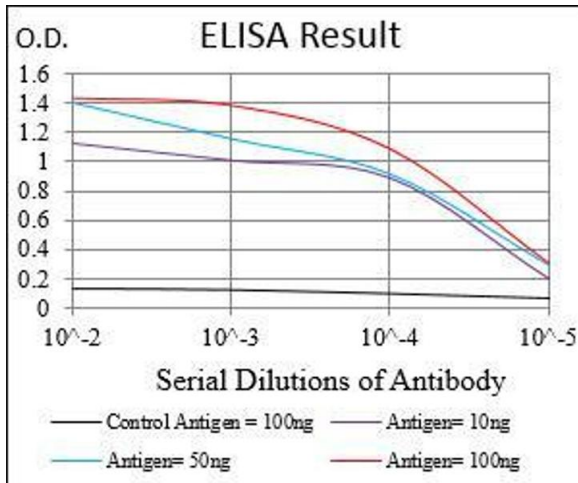
Buffer: Purified antibody in PBS with 0.05 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

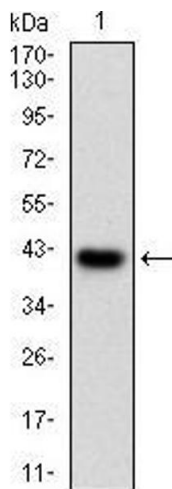
Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage



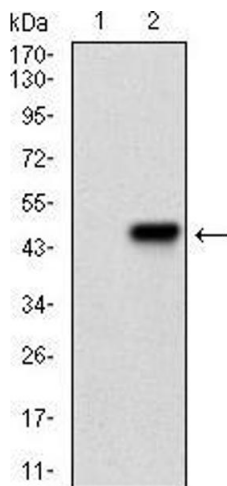
ELISA

Image 1. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),



Western Blotting

Image 2. Western blot analysis using PRKACA mAb against human PRKACA (AA: 1-120) recombinant protein. (Expected MW is 39.7 kDa)



Western Blotting

Image 3. Western blot analysis using PRKACA mAb against HEK293 (1) and PRKACA (AA: 1-120)-hlgGFc transfected HEK293 (2) cell lysate.