

Datasheet for ABIN2854448
anti-PRKAR2A antibody (Center)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	PRKAR2A
Binding Specificity:	Center
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAR2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human PKA R2. The exact sequence is proprietary.
Isotype:	IgG
Characteristics:	Rabbit Polyclonal antibody to PKA R2 (protein kinase, cAMP-dependent, regulatory, type II, alpha) PKA R2 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	PRKAR2A
Alternative Name:	PKA R2 (PRKAR2A 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, 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).

Gene ID: 5576

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: Suggested dilution Reference ICC/IF 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceICC/IF1:100-1:1000* Western blot1:500-1:3000*

Comment: Positive Control: 293T , A431 , HeLa , HepG2

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: 1XPBS, 20 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.

Preservative: Thimerosal (Merthiolate)

Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

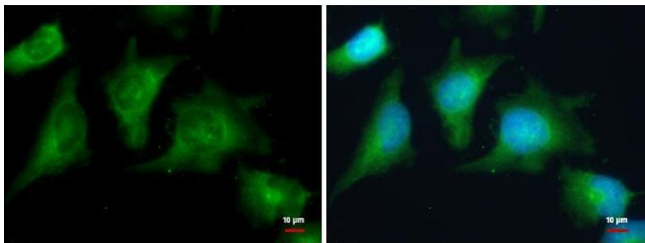
Handling

Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Validation report #104437 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)

Immunofluorescence

Image 1. ICC/IF Image PRKAR2A antibody detects PRKAR2A protein at cytoplasm by immunofluorescent analysis. Sample: HeLa cells were fixed in 100% MeOH for 5 min. Green: PRKAR2A protein stained by PRKAR2A antibody , diluted at 1:500. Blue: Hoechst 33342 staining.



Western Blotting

Image 2. WB Image PKA R2 antibody detects PKA R2 protein by Western blot analysis. A. 30 µg 293T whole cell lysate/extract B. 30 µg A431 whole cell lysate/extract C. 30 µg HeLa whole cell lysate/extract D. 30 µg HepG2 whole cell lysate/extract 10 % SDS-PAGE PKA R2 antibody , dilution: 1:1000

