

Datasheet for ABIN5518788
anti-PRKAR1A antibody (AA 2-81)



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4 Images

Overview

Quantity:	100 µg
Target:	PRKAR1A
Binding Specificity:	AA 2-81
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAR1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for cAMP-dependent protein kinase type I-alpha regulatory subunit(PRKAR1A) detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	E.coli-derived human PRKAR1A recombinant protein (Position: E2-E81). Human PRKAR1A shares 89.9% and 92.4% amino acid (aa) sequence identity with mouse and rat PRKAR1A, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for cAMP-dependent protein kinase type I-alpha regulatory subunit(PRKAR1A) detection. Tested with WB, IHC-P in Human,Rat.</p> <p>Gene Name: protein kinase cAMP-dependent type I regulatory subunit alpha</p> <p>Protein Name: cAMP-dependent protein kinase type I-alpha regulatory subunit</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: PRKAR1A

Alternative Name: PRKAR1A ([PRKAR1A Products](#))

Background: CAMP-dependent protein kinase type I-alpha regulatory subunit is an enzyme that in humans is encoded by the PRKAR1A gene. This protein encoded by this gene was found to be a tissue-specific extinguisher that down-regulates the expression of seven liver genes in hepatoma x fibroblast hybrids. Mutations in this gene cause Carney complex (CNC). This gene can fuse to the RET protooncogene by gene rearrangement and form the thyroid tumor-specific chimeric oncogene known as PTC2. A nonconventional nuclear localization sequence (NLS) has been found for this protein which suggests a role in DNA replication via the protein serving as a nuclear transport protein for the second subunit of the Replication Factor C (RFC40). Several alternatively spliced transcript variants encoding two different isoforms have been observed.

Synonyms: ACRDYS1 | ADOHR | CAR | CNC 1 | CNC | CNC1 | PKA RIA | PKR 1 | PKR1 | PPNAD 1 | PPNAD1 | PRKAR 1 | PRKAR1 | PRKAR1A | TSE 1 | TSE1 | P10644

Gene ID: 5573

UniProt: [P10644](#)

Pathways: [Hedgehog Signaling](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Myometrial Relaxation and Contraction](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

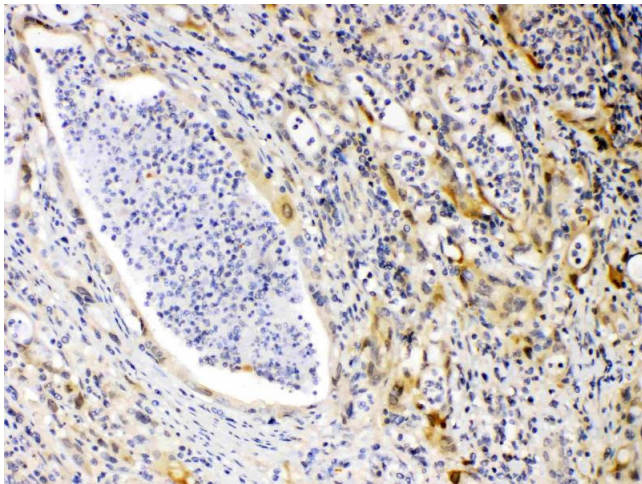
Application Details

Restrictions: For Research Use only

Handling

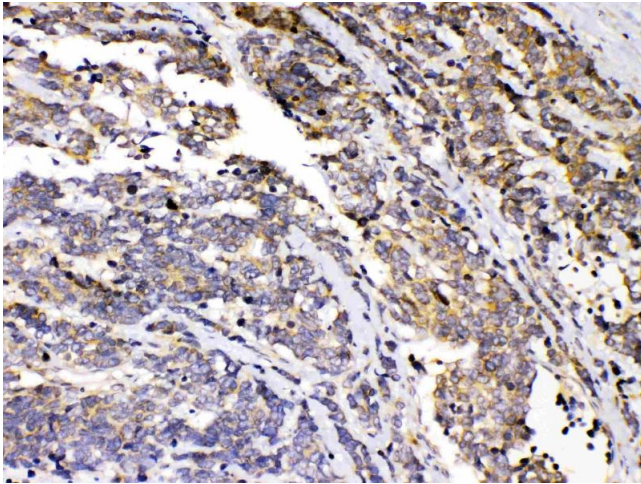
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



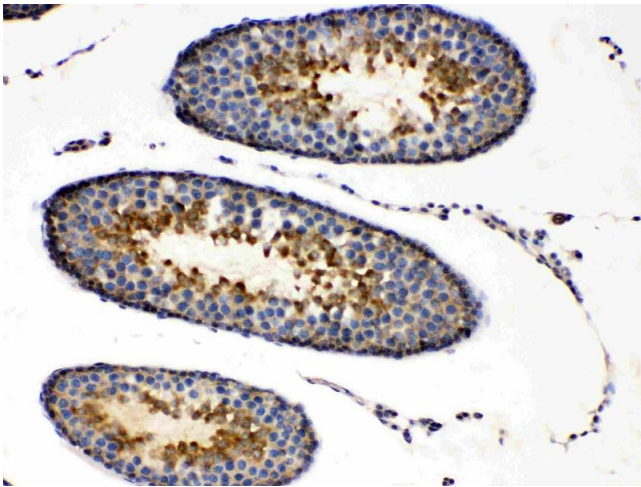
Immunohistochemistry

Image 1. PRKAR1A was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- PRKAR1A Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. PRKAR1A was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti-PRKAR1A Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 3. PRKAR1A was detected in paraffin-embedded sections of rat testis tissues using rabbit anti- PRKAR1A Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN5518788.