

Rabbit anti-Human, Rat PRKAR1A Polyclonal Antibody | anti-PRKAR1A antibody

Anti-PRKAR1A Antibody

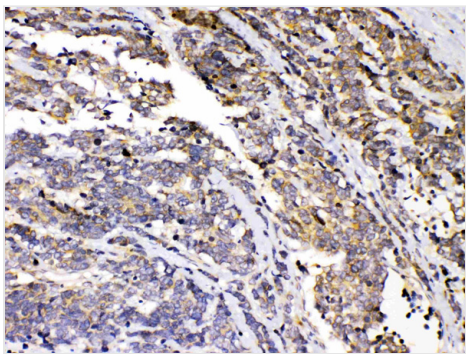
CATALOG # AAA46723	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

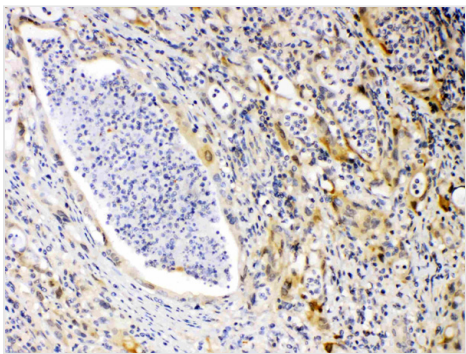
PRKAR1A; Polyclonal Antibody; Anti-PRKAR1A Antibody; ACRDYS1; ADOHR; CAR; CNC 1; CNC; CNC1; PKA RIA; PKR 1; PKR1; PPNAD 1; PPNAD1; PRKAR 1; PRKAR1; TSE 1; TSE1; P10644; cAMP-dependent protein kinase type I-alpha regulatory subunit; protein kinase cAMP-dependent type I regulatory subunit alpha; anti-PRKAR1A antibody

PRODUCT SPECIFICATIONS

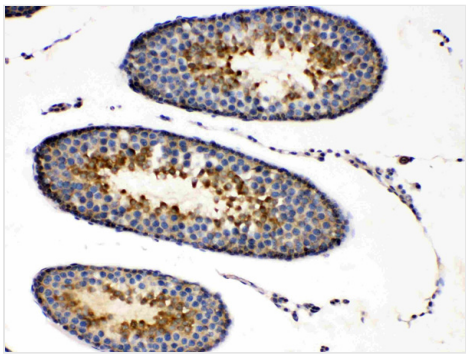
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	381
Applicable Applications for anti-PRKAR1A antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
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.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



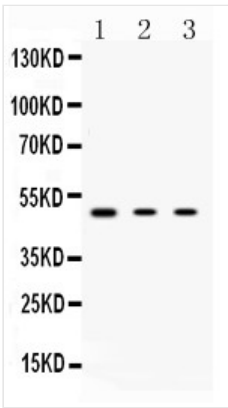
IHC (Immunohistochemistry)
PRKAR1A was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- PRKAR1A Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



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



IHC (Immunohistochemistry)
PRKAR1A was detected in paraffin-embedded sections of rat testis tissues using rabbit anti- PRKAR1A Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of PRKAR1A expression in rat thymus extract (lane 1), HEPG-2 whole cell lysates (lane 2) and MCF-7 whole cell lysates (lane 3). PRKAR1A at 48KD was detected using rabbit anti- PRKAR1A Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAR1A antibody	Rabbit IgG polyclonal antibody for cAMP-dependent protein kinase type I-alpha regulatory subunit(PRKAR1A) detection. 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.
References	1. "Entrez Gene: PRKAR1A protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)". 2. Scambler P, Oyen O, Wainwright B, Farrall M, Law HY, Estivill X, Sandberg M, Williamson R, Jahnsen T (December 1987). "Exclusion of catalytic and regulatory subunits of cAMP-dependent protein kinase as candidate genes for the defect causing cystic fibrosis". Am J Hum Genet. 41 (5): 925-32.

NCBI AND UNIPROT INFORMATION

NCBI GI #	443497964
NCBI GeneID	5573

NCBI Accession #	NP_001263218.1
NCBI GenBank Nucleotide #	NM_001276289.1
UniProt Accession #	P10644 ; Q567S7 ; K7ER48
Molecular Weight	38,003 Da
NCBI Official Full Name	cAMP-dependent protein kinase type I-alpha regulatory subunit isoform a
NCBI Official Synonym Full Names	protein kinase cAMP-dependent type I regulatory subunit alpha
NCBI Official Symbol	PRKAR1A
NCBI Official Synonym Symbols	CAR; CNC; CNC1; PKR1; TSE1; ADOHR; PPNAD1; PRKAR1; ACRDYS1
NCBI Protein Information	cAMP-dependent protein kinase type I-alpha regulatory subunit
UniProt Protein Name	cAMP-dependent protein kinase type I-alpha regulatory subunit
UniProt Gene Name	PRKAR1A
UniProt Synonym Gene Names	PKR1; PRKAR1; TSE1; TSE1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/prkar1a-antibody-immunohistochemistry-western-blot-elisa/46723>