

Rabbit anti-Human PRKACA Polyclonal Antibody | anti-PRKACA antibody

Anti-PRKACA Antibody, Rabbit Polyclonal

CATALOG # AAA254963	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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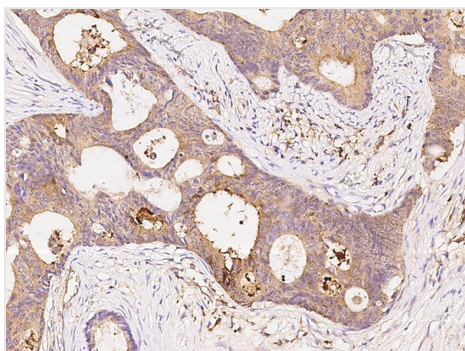
PRODUCT SYNONYMS

PRKACA; Polyclonal Antibody; Anti-PRKACA Antibody; Rabbit Polyclonal; PRKACA Antibody; Rabbit PAb; Antigen Affinity Purified; protein kinase; cAMP-dependent; alpha catalytic subunit; Anti-PKACA Antibody; Anti-PPNAD4 Antibody; anti-PRKACA antibody

PRODUCT SPECIFICATIONS

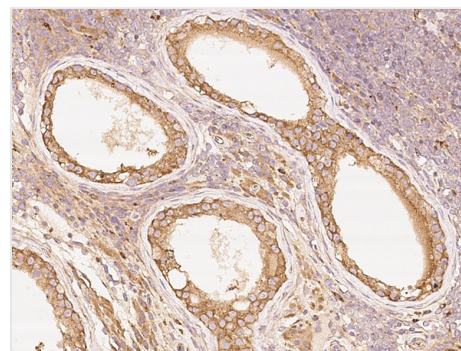
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PRKACA
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PRKACA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human PRKACA
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human PRKACA, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



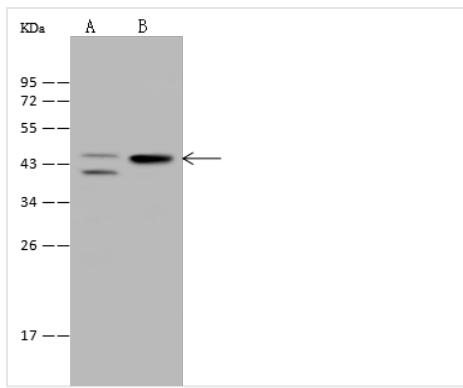
IHC (Immunohistochemistry)

Immunochemical staining of human PRKACA in human colon carcinoma with rabbit polyclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human PRKACA in human testis with rabbit polyclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-PRKACA rabbit polyclonal antibody at 1:500 dilution
 Lane A: HeLa Whole Cell Lysate
 Lane B: MCF-7 Whole Cell Lysate
 Lysates/proteins at 30 ug per lane.
 Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
 Developed using the ECL technique.
 Performed under reducing conditions.
 Predicted band size: 40 kDa
 Observed band size: 44 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PRKACA antibody	PRKACA encodes a catalytic subunit of protein kinase A, and almost all fibrolamellar carcinomas have a heterozygous 400-kb deletion that leads to the fusion of DNAJB1 and PRKACA. The resulting DNAJB1-PRKACA fusion transcript is believed to activate protein kinase A by dysregulation of the catalytic portion of the protein. In contrast, PRKAR1A encodes one of the regulatory subunits of protein kinase A. Protein kinase A (PRKACA) has been documented as a pivotal regulator in meiosis and mitosis arrest. Somatic mutations of the catalytic subunit of the cyclic AMP-dependent protein kinase (PRKACA) gene have been identified in about 35% of cortisol-producing adenomas (CPAs), with the affected patients showing overt Cushing's syndrome.
Product Categories/Family for anti-PRKACA antibody	Actin Dynamics Signaling Pathway
References	Nakajima Y, et al. (2014) Somatic mutations of the catalytic subunit of cyclic amp-dependent protein kinase (prkaca) gene in japanese patients with several adrenal adenomas secreting cortisol [rapid communication]. Endocr J 61 (8): 825-832. Graham RP, et al. (2018) Fibrolamellar carcinoma in the carney complex: Prkar1a loss instead of the classic dnajb1-prkaca fusion. Hepatology 68 (4): 1441-1447. Cui C, et al. (2008) Cdc25b acts as a potential target of prkaca in fertilized mouse eggs. Biol Reprod 79 (5): 991-998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506055
NCBI GeneID	5566
NCBI Accession #	NP_002721.1
NCBI GenBank Nucleotide #	NM_002730.3
UniProt Accession #	P17612 ; Q32P54 ; Q9H2Y0 ; Q9NRB4 ; Q9NRH9
Molecular Weight	351
NCBI Official Full Name	cAMP-dependent protein kinase catalytic subunit alpha isoform 1
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, catalytic, alpha
NCBI Official Symbol	PRKACA
NCBI Official Synonym Symbols	PKACA
NCBI Protein Information	cAMP-dependent protein kinase catalytic subunit alpha; PKA C-alpha; protein kinase A catalytic subunit; cAMP-dependent protein kinase catalytic subunit alpha, isoform 1
UniProt Protein Name	cAMP-dependent protein kinase catalytic subunit alpha
UniProt Gene Name	PRKACA

UniProt Synonym Gene Names	PKACA; PKA C-alpha
UniProt Entry Name	KAPCA_HUMAN

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://stage.aaabiotech.com/polyclonal/prkaca-antibody-immunohistochemistry-western-blot-elisa/254963>