

## PRKACA RABBIT PAB

**Cat.#:** S221674

**Product Name:** Anti-PRKACA Rabbit Polyclonal Antibody

**Synonyms:** PKACA; PPNAD4

**UNIPROT ID:** P17612 (Gene Accession - NP\_002721)

**Background:** This gene encodes one of the catalytic subunits of protein kinase A, which exists as a tetrameric holoenzyme with two regulatory subunits and two catalytic subunits, in its inactive form. 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. cAMP-dependent phosphorylation of proteins by protein kinase A is important to many cellular processes, including differentiation, proliferation, and apoptosis. Constitutive activation of this gene caused either by somatic mutations, or genomic duplications of regions that include this gene, have been associated with hyperplasias and adenomas of the adrenal cortex and are linked to corticotropin-independent Cushing's syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. Tissue-specific isoforms that differ at the N-terminus have been described, and these isoforms may differ in the post-translational modifications that occur at the N-terminus of some isoforms.

**Immunogen:** Synthetic peptide of human PRKACA

**Applications:** ELISA, WB, IHC

**Recommended Dilutions:** IHC: 25-100;WB: 200-1000;ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

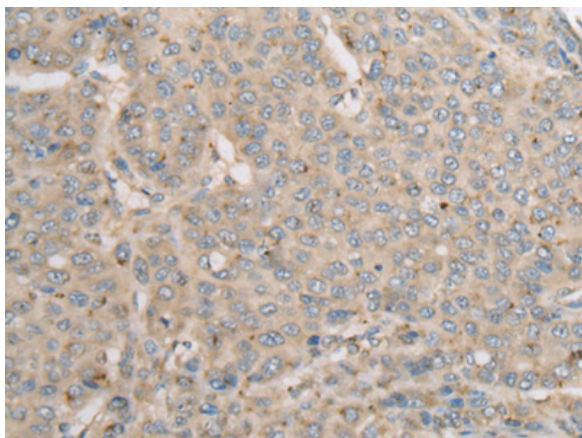
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

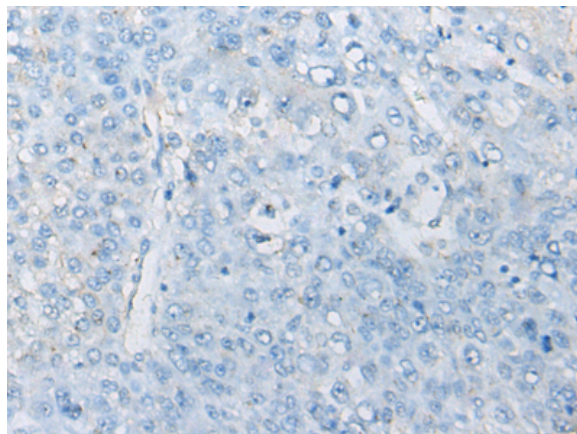
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Signal Transduction, Cancer, Metabolism

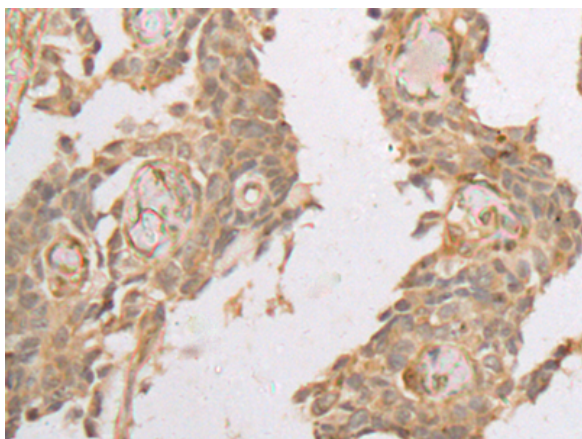
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



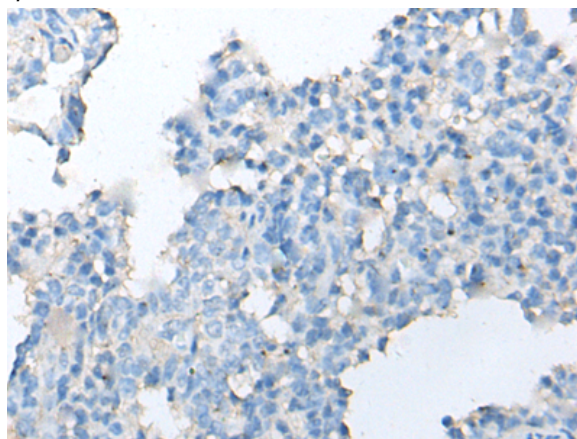
Immunohistochemistry analysis of paraffin embedded Human liver cancer tissue using 221674 (PRKACA Antibody) at a dilution of 1/30 (Cytoplasm or Nucleus).



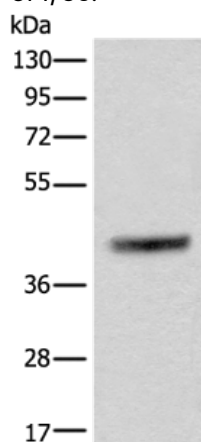
In comparison with the IHC on the left, the same paraffin-embedded Human liver cancer tissue is first treated with the synthetic peptide and then with 221674 (Anti-PRKACA Antibody) at dilution 1/30.



The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using 221674 (Anti-PRKACA Antibody) at a dilution of 1/30.



In comparison with the IHC on the left, the same paraffin-embedded Human ovarian cancer tissue is first treated with synthetic peptide and then with D263374 (Anti-PRKACA Antibody) at dilution 1/30.



Gel: 8% SDS-PAGE, Lysate: 40 µg;  
Lane: Human testis tissue lysate;  
Primary antibody: 221674 (PRKACA Antibody) at dilution 1/250;  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution;  
Exposure time: 3 seconds



# Product Description

Pioneering GTPase and Oncogene Product Development since 2010

---