

## Product overview

product name	Anti PRKAA2 polyclonal antibody
catalog No.	ATP005
Category	Primary antibody
Host	Rabbit
Species specificity	Human, other species was not test
Tested applications	WB: 1:2000~1:8000, ICC: 1:50~200, IHC: 1:50~100
Clonality	Polyclonal
Conjugation	Unconjugated
Immunogen	Recombinant protein of human PRKAA2(Met1-Arg552).
Alternative Names	5'-AMP-activated protein kinase catalytic subunit alpha-2, AMPK subunit alpha-2, Acetyl-CoA carboxylase kinase, ACACA kinase, Hydroxymethylglutaryl-CoA reductase kinase, HMGCR kinase, PRKAA2, AMPK, AMPK2
Uniprot ID	P54646

## Product performance

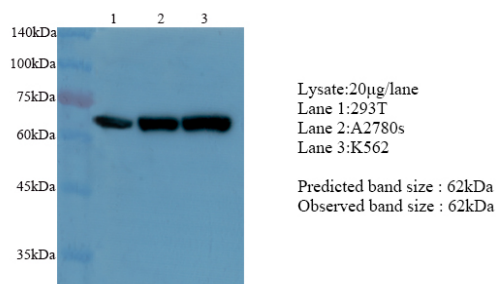
Form	Liquid
Buffer	PBS, pH 7.4, containing 0.05% proclin300, 50% glycerol.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 4°C for frequent use. Store at -20 to -80 °C for twelve months from the date of receipt.
Concentration	0.43mg/ml
Isotype	IgG
MW	62kDa
Purity	Antigen affinity purification

## Dilution range

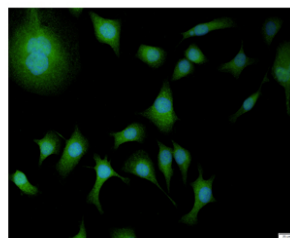
WB, ICC, IHC

## Product experiment picture





Various lysates were subjected to SDS PAGE followed by western blot with PRKAA2 antibody at dilution of 1:1000.



Immunofluorescent analysis of SKOV3 cells using PRKAA2 antibody at dilution of 1:50 and Alexa Fluor-488 conjugated Affinipure Goat anti rabbit IgG(H+L).

## Reference

PubMed:25687571;PubMed:28561066;PubMed:11602624;

## Product background

PRKAA2 (protein kinase, AMP-activated, alpha 2 catalytic subunit), also named as AMPKA2, AMPK, PRKAA, AMPK2, belongs to the CAMK Ser/Thr protein kinase family and SNF1 subfamily. PRKAA2 is an  $\alpha\beta\gamma$  heterotrimer that is activated by low cellular energy status, such as decreases in both the ATP/AMP ratio and the phosphocreatine content and it is a glycogen synthase kinase, phosphorylating Ser7 at the NH2 terminus, which decreases glycogen synthase activity (PMID:14532170). The protein can be ubiquitinated (PMID:21224036).