

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

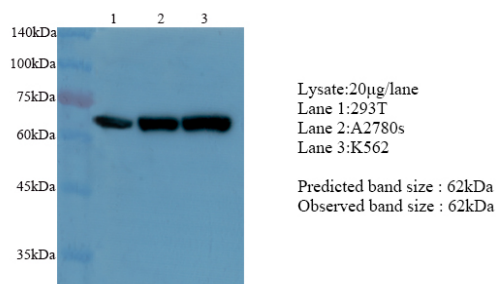
Form	Liquid
Buffer	PBS, pH 7.4, containing 0.05% proclin300, 50% glycerol.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 4°C for frequent use. Store at -20 to -80 °C for twelve months from the date of receipt.
Concentration	0.43mg/ml
Isotype	IgG
MW	62kDa
Purity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

Dilution range

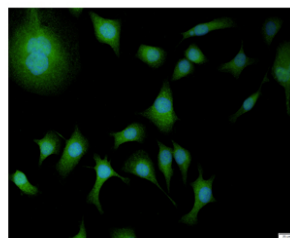
WB, ICC, IHC

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).