

## Product overview

product name	Anti AMPK alpha 1 polyclonal antibody
catalog No.	ATP004
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 AMPK alpha 1 (Met10-Gln559).
Alternative Names	AMPK subunit alpha-1, ACACA kinase, HMGCR kinase, PRKAA1, Tau-protein kinase PRKAA1, AMPK1, PRKAA1
Uniprot ID	Q13131

## Product performance

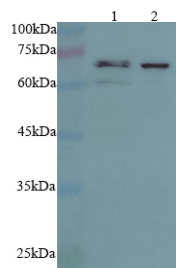
Form	Liquid
Buffer	PBS, pH 7.4, containing 0.05% proclin300, 50% glycerol.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 4°C for frequent use. Store at -20 to -80 °C for twelve months from the date of receipt.
Concentration	0.47mg/ml
Isotype	IgG
MW	63kDa
Purity	Antigen affinity purification

## Dilution range

WB, ICC, IHC

## Product experiment picture

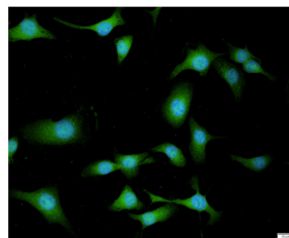




Lysate: 20 µg/lane  
Lane 1: HepG2  
Lane 2: 293T

Predicted band size : 63kDa  
Observed band size : 63kDa

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



Immunofluorescent analysis of SKOV3 cells using AMPK alpha 1 antibody at dilution of 1:100 and Alexa Fluor-488 conjugated Affinipure Goat anti rabbit IgG(H+L).

## Reference

PMID: 28561066; PMID: 11554766; PMID: 11518699; PMID: 12519745

## Product background

The mammalian 5-prime-AMP-activated protein kinase (AMPK) appears to play a role in protecting cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. PRKAA1 is also named as AMPK1, ACACA kinase, HMGCRC kinase. It is a mammalian homologue of sucrose non-fermenting protein kinase (SNF-1), which belongs to a serine/threonine protein kinase family. It has 2 isoforms with molecular mass of 63-66 kDa produced by alternative splicing.