

Nur für Forschungszwecke

# AMPK Alpha 2 Polyklonaler Antikörper



Katalog-Nr.: 18167-1-AP

Vorgestelltes Produkt

39 Publikationen

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 18167-1-AP	<b>GenBank-Zugangsnummer:</b> BC069680	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul, Konzentration: 600 µg/ml von Nanodrop;	<b>GeneID (NCBI):</b> 5563	<b>Empfohlene Verdünnungen:</b> WB 1:500-1:2000 IP 0.5-4.0 µg für IP und 1:500-1:2000 für WB
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> protein kinase, AMP-activated, alpha 2 catalytic subunit	<b>IHC 1:100-1:400</b> <b>IF 1:50-1:500</b>
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 552 aa, 62 kDa	
<b>Immunogen Katalognummer:</b> AG12796	<b>Beobachtete Masse:</b> 62 kDa	

## Anwendungen

### Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

### In Publikationen genannte Anwendungen:

IF, IHC, IP, WB

### Getestete Reaktivität:

Human, Maus, Ratte

### Zitierte Arten:

Hausschwein, Human, Maus, Ratte

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

**WB:** HeLa-Zellen, HEK-293-Zellen, humanes Skelettmuskelgewebe, MCF-7-Zellen, Ratten-Eierstockgewebe, SKOV-3-Zellen

**IP:** Maus-Skelettmuskelgewebe,

**IHC:** humanes Mammakarzinomgewebe, Maus-Skelettmuskelgewebe

**IF:** MCF-7-Zellen,

## Hintergrundinformationen

PRKAA2 (protein kinase, AMP-activated, alpha 2 catalytic subunit), also named as AMPK2, AMPK, PRKAA, AMPK2, belongs to the CAMK Ser/Thr protein kinase family and SNF1 subfamily. PRKAA2 is an  $\alpha\beta$  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).

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Cefan Zhou	32972302	Autophagy	WB
Zhan Zhao	28959186	Front Mol Neurosci	WB
Lu Liu	27600020	Eur J Pharmacol	WB

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

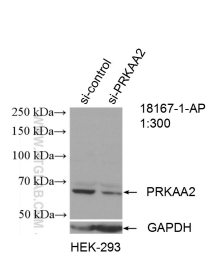
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

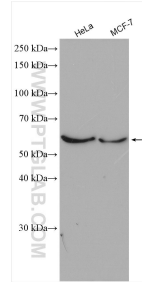
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

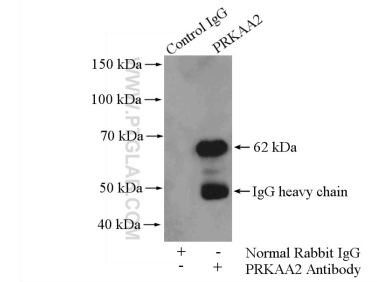
## Ausgewählte Validierungsdaten



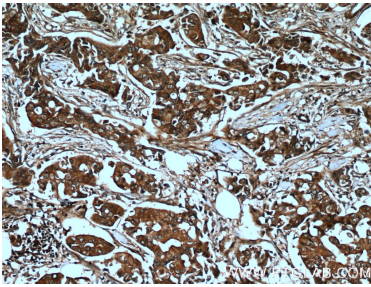
WB result of AMPK alpha 2 antibody (18167-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK alpha 2 transfected HEK-293 cells.



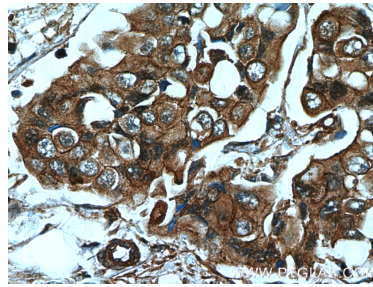
Various lysates were subjected to SDS PAGE followed by western blot with 18167-1-AP (AMPK alpha 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



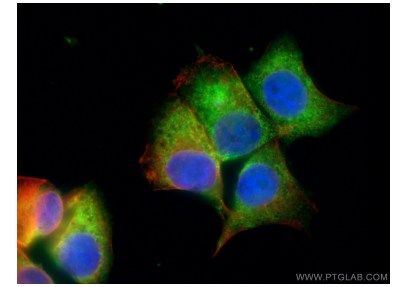
IP Result of anti-AMPK alpha 2 (IP:18167-1-AP, 4ug; Detection:18167-1-AP 1:1000) with mouse skeletal muscle tissue lysate 3600ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18167-1-AP (AMPK alpha 2 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18167-1-AP (AMPK alpha 2 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using AMPK Alpha 2 antibody (18167-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).