



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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**PRKAA2 purified MaxPab mouse polyclonal antibody (B01P)** MaxPab®

Catalog # : H00005563-B01P

規格 : [ 50 ug ]

[List All](#)

**Specification**

**Product Description:** Mouse polyclonal antibody raised against a full-length human PRKAA2 protein.

**Immunogen:** PRKAA2 (NP\_006243.2, 1 a.a. ~ 552 a.a) full-length human protein.

**Sequence:**  
 MAEKQKHDGRVKIGHYVLGDTLGVGTFGKVKIGEHLTGHKVAVKILNR  
 QKIRSLDVVGKIKREIQLKFRPHIILYQVISTPTDFMVMMEYVSGGEL  
 FDYICKHGRVEEMEARRLFQQILSAVDYCHRHMVHRDLKPENVLLDAH  
 MNAKIADFGLSNMMSDGEFLRTSCGSPNYAAPEVISGRLYAGPEVDIWS  
 CGVILYALLCGTLPFDDEHVPTLFKKIRGGVFYIPEYLNRSVATLLMHMLQ  
 VDPLKRATIKDIREHEWFKQDLPSYLPEDPSYDANVIDEAVKEVCEKFE  
 CTESEVMNSLYSGDPQDQLAVAYHLIIDNRRIMNQASEFYASSPPSGSF  
 MDDSAMHIPPGLKPHPERMPPLIADSPKARCPDALNTTKPKSLAVKKAK  
 WHLGIRSQSKPYDIMAEVYRAMKQLDFEWKVVNAYHLRVRRKNPVTGNY  
 VKMSLQLYLVDNRSYLLDFKSIDDEVEQRSGSSTPQRSCSAAGLHRPR  
 SSFDSTTAESHSLSGSLTGSLTGSTLSSVSPRLGSHTMDFFEMCASLITT  
 LAR

**Host:** Mouse

**Reactivity:** Human

**Quality Control Testing:** Antibody reactive against mammalian transfected lysate.

**Storage Buffer:** In 1x PBS, pH 7.4

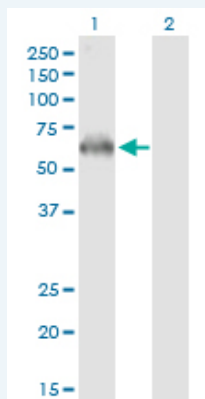
**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**MSDS:**  [Download](#)

**Datasheet:**  [Download](#)

**Applications**

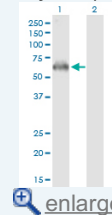
**Western Blot (Transfected lysate)**



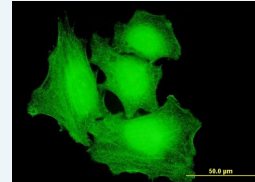
Western Blot analysis of PRKAA2 expression in transfected 293T cell line (H00005563-T02) by PRKAA2 MaxPab polyclonal antibody.

**Application Image**

**Western Blot (Transfected lysate)**

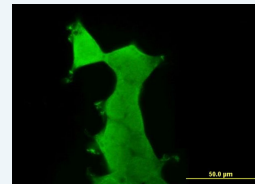



**Immunofluorescence**



 [enlarge](#)

**Immunofluorescence**

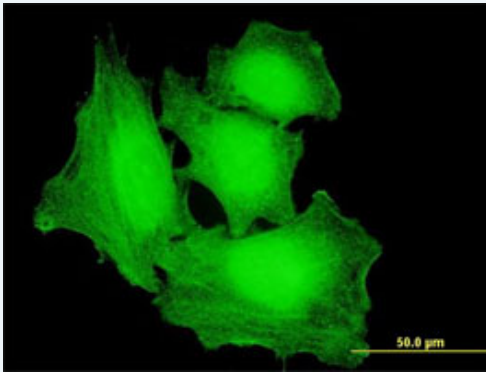


 [enlarge](#)

Lane 1: PRKAA2 transfected lysate(62.30 KDa).  
Lane 2: Non-transfected lysate.

 [Protocol Download](#)

### Immunofluorescence

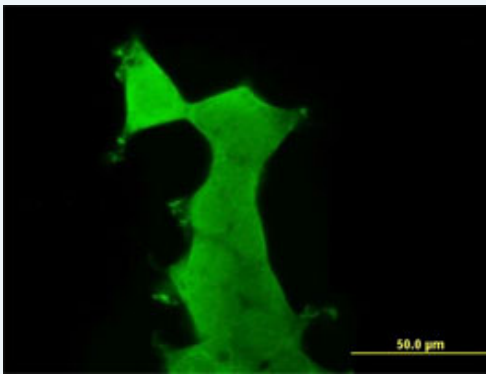



 [enlarge this image](#)

Immunofluorescence of purified MaxPab antibody to PRKAA2 on HeLa cell. [antibody concentration 10 ug/ml]

 [Protocol Download](#)

### Immunofluorescence



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Immunofluorescence of purified MaxPab antibody to PRKAA2 on 293 cell. [antibody concentration 1 ug/ml]

 [Protocol Download](#)

### Gene Information

Entrez GeneID: [5563](#)

GeneBank Accession#: [NM\\_006252.2](#)

Protein Accession#: [NP\\_006243.2](#)

Gene Name: PRKAA2

Gene Alias: AMPK,AMPK2,PRKAA

Gene Description: protein kinase, AMP-activated, alpha 2 catalytic subunit

Omim ID: [600497](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA

carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia. [provided by RefSeq]

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**Other Designations:** 5'-AMP-activated protein kinase, catalytic alpha-2 chain, AMP-activated protein kinase alpha 2 catalytic subunit, AMPK-alpha-2 chain, OTTHUMP0000009993

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### Gene Pathway

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[Adipocytokine signaling pathway](#) [Hypertrophic cardiomyopathy \(HCM\)](#)  
[Insulin signaling pathway](#) [mTOR signaling pathway](#) [Regulation of autophagy](#)

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