



# 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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**PRKAA1 purified MaxPab mouse polyclonal antibody (B01P)** MaxPab®

Catalog # : H00005562-B01P

規格 : [ 50 ug ]

[List All](#)

**Specification**

**Product Description:** Mouse polyclonal antibody raised against a full-length human PRKAA1 protein.

**Immunogen:** PRKAA1 (AAH48980.1, 1 a.a. ~ 574 a.a) full-length human protein.

**Sequence:**  
 MRRLSSWRKLATAEKQKHDGRVKIGHYILGDTLGVGTFGKVKVGKHELT  
 GHKVAVKILNRQKIRSLDVVGKIRREIQNLKFRHPHIKLYQVISTPSDIFMV  
 MEYVSGGELFDYICKNGRKS DVPGVVKTGSTKELDEKESRRLFQQILSG  
 VDYCHRHMVHRDLKPENVLLDAHMNAKIADFGLSNMMSDGEFLRTSCG  
 SPNYAAPEVISGRLYAGPEVDIWSSGVILYALLCGTLPFDDDHPPTLFKKI  
 CDGIFYTPQYLNPSVISLLKHMLQVDPMKRATIKDIREHEWFKQDLPKYL  
 PEDPSYSSTMIDDEALKEVCEKFCSEEEVLSCLYNRNHQDPLAVAYHLII  
 DNRRIMNEAKDFYLATSPDSDLDDHHLTRPHERVPFLVAETPRARHTL  
 DELNPQKSKHQGVRKAKWHLGIRSQSRPNDIMAEVCRAIKQLDYEWKVV  
 NPYYLRVRRKNPVTSTYSKMSLQLYQVDSRTYLLDFRSIDDEITEAKSGT  
 ATPQRSGSVSNYRSCQRSDSDAEAQGSSEVSLTSSVTSLDSSPVDLT  
 PRPGSHTIEFFEMCANLIKILAQ

**Host:** Mouse

**Reactivity:** Human

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

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

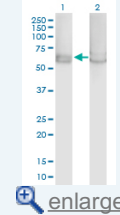
**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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

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

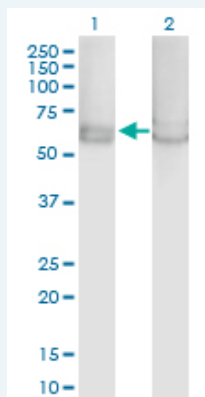
**Application Image**

Western Blot (Transfected lysate)



**Applications**

Western Blot (Transfected lysate)



Western Blot analysis of PRKAA1 expression in transfected 293T cell line (H00005562-T02) by PRKAA1 MaxPab polyclonal antibody.

Lane 1: PRKAA1 transfected lysate(63.14 KDa).  
Lane 2: Non-transfected lysate.

 [Protocol Download](#)

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## Gene Information

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**Entrez GeneID:** [5562](#)

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**GeneBank  
Accession#:** [BC048980.1](#)

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**Protein  
Accession#:** [AAH48980.1](#)

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**Gene Name:** PRKAA1

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**Gene Alias:** AMPK,AMPKa1,MGC33776,MGC57364

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**Gene  
Description:** protein kinase, AMP-activated, alpha 1 catalytic subunit

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**Omim ID:** [602739](#)

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**Gene Ontology:** [Hyperlink](#)

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**Gene Summary:** The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

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**Other  
Designations:** 5'-AMP-activated protein kinase, catalytic alpha-1 chain,AMP -activate kinase alpha 1 subunit,AMP-activated protein kinase, catalytic, alpha-1,AMPK alpha 1

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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](#)

## Related Disease

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[Alzheimer Disease](#) [Alzheimer disease](#) [Atherosclerosis](#) [Calcinosis](#) [Cardiovascular Diseases](#)  
[Colonic Neoplasms](#) [Coronary Artery Disease](#) [Diabetes Complications](#) [Diabetes Mellitus](#)  
[Diabetes Mellitus, Type 2](#) [Drug Toxicity](#) [Edema](#) [Hypercholesterolemia](#)  
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