



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## PRKAA1 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # : H00005562-T01

規格 : [ 100 uL ]

List All

### Specification

**Transfected Cell Line:** 293T

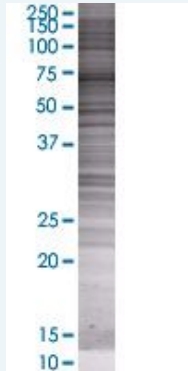
**Plasmid:** pCMV-PRKAA1 full-length

**Host:** Human

**Theoretical MW (kDa):** 63.25

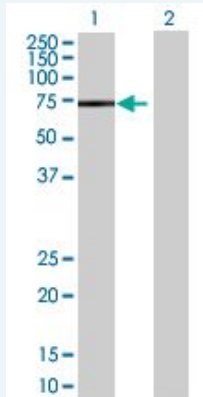
**Quality Control Testing:** Transient overexpression cell lysate was tested with Anti-PRKAA1 antibody ([H00005562-B01](#)) by Western Blots.

#### SDS-PAGE Gel



PRKAA1 transfected lysate.

#### Western Blot



Lane 1: PRKAA1 transfected lysate ( 63.25 KDa)

Lane 2: Non-transfected lysate.

**Storage Buffer:** 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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

### Applications

### Application Image

Western Blot

## Western Blot

### Gene Information

Entrez GeneID: [5562](#)

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

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

Gene Name: PRKAA1

Gene Alias: AMPK,AMPKa1,MGC33776,MGC57364

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

Omim ID: [602739](#)

Gene Ontology: [Hyperlink](#)

**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]

**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

### Gene Pathway

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

### Related Disease

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[Colonic Neoplasms](#) [Coronary Artery Disease](#) [Diabetes Complications](#) [Diabetes Mellitus](#)  
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