



# 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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## Datasheet

### PRKAA2 (Human) Recombinant Protein (P01)

**Catalog Number:** H00005563-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human PRKAA2 full-length ORF ( NP\_006243.2, 1 a.a. - 552 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MAEKQKHDGRVKIGHYVLGDTLGVGTFGKVKIGEHL  
TGHKVAVKILNRQKIRSLDVVGKIKREIQNLKFRHPHII  
KLYQVISTPTDFFMVMYVSGGELFDYICKHGRVEEM  
EARRLFQQILSAVDYCHRHMVVHRDLKPENVLLDAH  
NAKIADFGLSNMMSDGEFLRTSCGSPNYAAPEVISGR  
LYAGPEVDIWSGCVILYALLCGTLPFDDEHVPTLFKKIR  
GGVFIPEYLNRSVATLLMHMLQVDPLKRATIKDIREH  
EWFKQDLPSYLPEDPSYDANVIDDEAVKEVCEKFE  
TESEVMNSLYSGDPQDQLAVAYHLIIDNRRIMNQASE  
FLASSPPSGSFMDDSAMHIPPGLKPHPERMPPLIAD  
PKARCPLDALNTTKPKSLAVKKAKWHLGIRSQSKPYDI  
MAEVYRAMKQLDFEWKVVNAYHLRVRKKNPVTGNYV  
KMSLQLYLVDNRSYLLDFKSIDDEVVEQRSGSSTPQR  
SCSAAGLHRPRSSFDSTTAESHLSGSLTGSLTGSL  
SSVSPRLGSHMTDFFEMCASLITTLAR

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 88.7

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid

repeated freezing and thawing.

**Entrez GeneID:** 5563

**Gene Symbol:** PRKAA2

**Gene Alias:** AMPK, AMPK2, PRKAA

**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]