



# SZABO SCANDIC

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## Produktinformation



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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### PRKACA (Human) Recombinant Protein (P01)

**Catalog Number:** H00005566-P01

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

**Product Description:** Human PRKACA full-length ORF (AAH39846, 1 a.a. - 351 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MGNAAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQ  
NTAHL DQFERIKTLGTGSFGRVMLVKHKETGNHYAMK  
ILDKQKVVKLQIEHTLNEKRILQAVNFPFLVKLEFSFK  
DNSNLYMVM EYVPGGEMFSLRRIGRFSEPHARFYA  
AQIVLTFEYLHSLDLIYRDLKPENLLIDQQGYIQVDFGF  
AKRVKGRWTLCGTPEYL APEIILSKGYNKAVDWWAL  
GVL IYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSS  
DLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFATT  
DWIAIYQRKVEAPFIPKFKGPGDTSNFDDYEEEEIRVSI  
NEKCGKEFSEF

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

**Theoretical MW (kDa):** 64.35

**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:** 5566

**Gene Symbol:** PRKACA

**Gene Alias:** MGC102831, MGC48865, PKACA

**Gene Summary:** cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

**References:**

1. PRKAR1A overexpression is associated with increased ECPKA autoantibody in liver fluke-associated cholangiocarcinoma: application for assessment of the risk group. Loilome W, Yooyuen S, Namwat N, Sithithaworn P, Puapairoj A, Kano J, Noguchi M, Miwa M, Yongvanit P. *Tumour Biol.* 2012 Aug 26.