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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

PRKAA1 (Human) Recombinant Protein (P01)

Catalog Number: H00005562-P01

Regulation Status: For research use only (RUO)

Product Description: Human PRKAA1 full-length ORF (AAH12622, 1 a.a. - 207 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MATAEKQKHDGRVKIGHYILGDTLGVGTFGKVKVGKH
ELTGHKVAVKILNRQKIRSLDVVGKIRREIQNLKLFHRP
HIIKLYQVISTPSDIFMVMMEYVSGGELFDYICKNGRLDE
KESRRLFQRILSGVDYCHRHMVVHRDLKPENVLLDAH
MNAKIADFGLSNMMSDGEFLRTSCGSPNYAAPEVISG
RDCNIIRILTSQFTNYQH

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 48.51

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: 5562

Gene Symbol: PRKAA1

Gene Alias: AMPK, AMPKa1, MGC33776, MGC57364

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]

References:

1. ?-6-Phosphogluconolactone, a Byproduct of the Oxidative Pentose Phosphate Pathway, Contributes to AMPK Activation through Inhibition of PP2A. Gao X, Zhao L, Liu S, Li Y, Xia S, Chen D, Wang M, Wu S, Dai Q, Vu H, Zacharias L, DeBerardinis R, Lim E, Metallo C, Boggon TJ, Lonial S, Lin R, Mao H, Pan Y, Shan C, Chen J. Mol Cell. 2019 Dec 19;76(6):857-871.e9. doi: 10.1016/j.molcel.2019.09.007. Epub 2019 Oct 2.