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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

ATP5B (Human) Recombinant Protein (P01)

Catalog Number: H00000506-P01

Regulation Status: For research use only (RUO)

Product Description: Human ATP5B full-length ORF (NP_001677.2, 1 a.a. - 529 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MLGFVGRVAAAPASGALRRLTPSASLPPAQLLLRAAP
TAVHPVRDYAAQTSPSPKAGAATGRIVAVIGAVVDVQF
DEGLPILNALEVQGRETRLVLEVAQHLGESTVRTIAM
DGTEGLVRGQKVLDSGAPIKIPVGPETLGRIMNVIGEPI
DERGPIKTKQFAPIHAEAPEFMEMSVEQEILVTGIKVVV
LLAPYAKGGKIGLFGGAGVGKTVLIMELINNVAKAHGG
YSVFAGVGERTRREGNDLYHEMIESGVINLKDATSKVAL
VYQGMNEPPGARARVALTGLTVAEYFRDQEGQDVLL
FIDNIFRFTQAGSEVSALLGRIPSAVGYQPTLATDMGT
MQERITTTTKGSITSVQAIYVPADDLTDPAATTFHLD
ATTVLSRAIAELGIYPAVDPLDSTSRIMDPNIVGSEHYD
VARGVQKILQDYKSLQDIIAILGMDELSEEDKLTVSRAR
KIQRFLSQPFQVAEVFTGHMGKLVPLKETIKGFQQILA
GEYDHLPEQAFYMGPIEEAVAKADKLAEEHSS

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 83

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: 506

Gene Symbol: ATP5B

Gene Alias: ATPMB, ATPSB, MGC5231

Gene Summary: This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the beta subunit of the catalytic core. [provided by RefSeq]

References:

1. Diggin' on U(biquitin): A Novel Method for the Identification of Physiological E3 Ubiquitin Ligase Substrates. Rubel CE, Schisler JC, Hamlett ED, Dekroon RM, Gautel M, Alzate O, Patterson C Cell Biochem Biophys. 2013 Sep;67(1):127-38. doi: 10.1007/s12013-013-9624-6.
2. Enteroviruses and the pathogenesis of type 1 diabetes revisited: Cross-reactivity of enterovirus capsid protein (VP1) antibodies with human mitochondrial proteins. Hansson SF, Korsgren S, Ponten F, Korsgren O. J Pathol. 2013 Jan 17. doi: 10.1002/path.4166. [Epub ahead of print]