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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

ATP2A2 (Human) Recombinant Protein (P01)

Catalog Number: H00000488-P01

Regulation Status: For research use only (RUO)

Product Description: Human ATP2A2 full-length ORF (NP_001672.1, 1 a.a. - 997 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MENAHKTVEEVLGHFGVNESTGLSLEQVKKLERW
GSNELPAEEGKTLLELVIEQFEDLLVRILLAAACISFVLA
WFEEGEETITAFVEPFVILLILVANAIVGVWQERNAENA
IEALKEYEPENMGKVYRQDRKSVQRIKAKDIVPGDIVEIA
VGDKVPADIRLTSIKSTTLRVDQSILTGESVSVIKHTDP
VPDPRAVNQDKKNMLFSGTNIAAGKAMGVVVATGVN
TEIGKIRDEMVAEQERTPLQKQLDEFGEQLSKVISLIC
AVWIINIGHFNDPVHGGSWIRGAIYYFKIAVALAVAAIPE
GLPAVITTCALGTRRMAKKNAIVRSLPSVETLGCTSVI
CSDKTGTLTTNQMSVCRMFILDRVEGDTCSLNEFTITG
STYAPIGEVHKDDKPVNCHQYDGLVELATICALCND
LDYNEAKGVYEVKVEATETALTCLVEKMNVFDTLKG
LSKIERANACNSVIKQLMKKEFTLEFSRDRKSMSVYCT
PNKPSRTSMSKMFVKGAPGVIDRCTHIRVGS TKVPM
TSGVKQKIMSVIREWGS SDTLRCLALATHDNPLRRE
EMHLEDSANFIKYETNLTFVGCVGMLDPPRIEVASSVK
LCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSK
AFTGREFDELNPSAQRDA CLNARCFARVEPSHKSKIV
EFLQSFDEITAMTGDGVNDAPALKKAEIGIAMGSGTAV
AKTASEMVLADDNFSTIVA AVEEGRAIYNNMKQFIRYLI
SSNVGEVVCIFLTAALGFPEALIPVQLLWVNLVTDGLPA
TALGFNPPDLDIMNKPPRNPKEPLISGWLFFRYLAIGC
YVGAATVGAAA WFWIAADGGPRVSYFQLSHFLQCKE
DNPDFEGVDCAIFESPYPMTMALSVLVTIEMCNALNSL
SENQSLLRMPWENIWL VGSICLSMSLHFLILYVEPLPL
IFQITPLNVTQWLMVLKISLPVILMDETLKFVARNYLEPA
ILE

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 136.1

Interspecies Antigen Sequence: Mouse (99); Rat (99)

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: 488

Gene Symbol: ATP2A2

Gene Alias: ATP2B, DAR, DD, DKFZp686P0211, FLJ20293, FLJ38063, MGC45367, SERCA2

Gene Summary: This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol into the sarcoplasmic reticulum lumen, and is involved in regulation of the contraction/relaxation cycle. Mutations in this gene cause Darier-White disease, also known as keratosis follicularis, an autosomal dominant skin disorder characterized by loss of adhesion between epidermal cells and abnormal keratinization. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

References:

1. Methods for Modulating Cyclic Nucleotide-Mediated Signaling in Cardiac Myocytes and Compositions. Movsesian M, Zaccolo M. United States Patent Application. 2016 Mar 24. 20160083701A1
2. Regulation of SERCA2 activity by PDE3A in human myocardium: Phosphorylation-dependent interaction of PDE3A1 with SERCA2. Ahmad F, Shen W, Vandeput F, Szabo-Fresnais N, Krall J, Degerman E, Goetz F, Klusmann E, Movsesian M, Manganiello V J Biol Chem. 2015 Jan 15. pii: jbc.M115.638585.