



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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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  
IEALKEYEPENGKQVYRQDRKSVQRIKAKDIVPGDIVEIA  
VGDKVPADIRLTSIKSTTLRVDQSILTGESVSVIKHTDP  
VPDPRAVNQDKKNMLFSGTNIAAGKAMGVVVATGVN  
TEIGKIRDEMVAEQERTPLQKQLDEFGEQLSKVISLIC  
AVWIINIGHFNDPVHGGSWIRGAIYYFKIAVALAVAAIPE  
GLPAVITTCALGTRRMMAKKNIVRSLPSVETLGCTSVI  
CSDKTGTLTTNQMSVCRMFILDRVEGDTCSLNEFTITG  
STYAPIGEVHKDDKPVNCHQYDGLVELATICALCNDSA  
LDYNEAKGVYKVEATETALTCLVEKMNVFDELKGL  
LSKIERANACNSVIKQLMKKEFTLEFSRDRKSMSVYCT  
PNKPSRTSMSKMFVKGAPGVIDRCTHIRVGSTKVPM  
TSGVKQKIMSVIREWGSQSDTLRCLALATHDNLPRRE  
EMHLEDSANFIKYETNLTFVGCVMGLDPPRIEVASSVK  
LCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSK  
AFTGREFDELNPSAQRDACLNARCFARVEPSHKSKIV  
EFLQSFDEITAMTGDGVNDAPALKKAEIGIAMGSGTAV  
AKTASEMVLADDNFSTIVAAVEEGRAIYNNMKQFIRYLI  
SSNVGEVVCIFLTAALGFPEALIPVQLLWVNLVTDGLPA  
TALGFNPPDLDIMNKPPRNPKEPLISGWLFFRYLAIGC  
YVGAATVGAAAWWFIAADGGPRVSFYQLSHFLQCKE  
DNPDFEGVDCAIFESPYPMTMALSVLVTIEMCNALNSL  
SENQSLLRMPWENIWLVGSIKLSMSLHFLILYVEPLPL  
IFQITPLNVTQWLMVLKISLPVILMDETLKFVARNYLEPA  
ILE

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

**Theoretical MW (kDa):** 136.1

**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 GenID:** 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.