

Product Information

MemDX™ Membrane Protein Human ATP2A2 (ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2) Full Length

Cat. No.: **MPC1148K**

This product is for research use only and is not intended for diagnostic use.

This product is a 114.7 kDa Human ATP2A2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ATP2A2

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

114.7 kDa

TMD

10

Sequence

MENAHTKTVEEVLGHFGVNESTGLSLEQVKKLKERWGSNELPAEEGKTLL
ELVIEQFEDLLVRILLAAACISFVLAWFEEGEETITAFVEPFVILLILVA
NAIVGVWQERNAENAIEALKEYEPEMGKVYRQDRKSVQRIKAKDIVPGDI
VEIAVGDKVPADIRLTSIKSTTLRVDQSILTGESVSVIKHTDPVPDPRAV
NQDKKNMLFSGTNIAAGKAMGVVVATGVNTEIGKIRDEMVAEQERTPLQ
QKLDEFGEQLSKVISLICIAVWIINIGHFNDPVHGGSWIRGAIYYFKIAV
ALAVAAIPEGLPAVITTCALGTRRMAKKNAIVRSLPSVETLGCTSVICS
DKTGTLTTNQMSVCRMFIIDRVEGDTCSLNEFTITGSTYAPIGEVHKDDK
PVNCHQYDGLVELATICALCNDSDLDYNEAKGVYEKVGAEATETALTCLVE
KMNVFDTLKGLSKIERANACNSVIKQLMKKEFTLEFSRDRKSMSVYCTP
NKPSRTSMSKMFVKGAPEGVIDRCTHIRVGSTKVPMTSGVKQKIMSVIRE
WGSQSDTLRCLALATHDNPLRREEMHLEDSANFIKYETNLTFVGCVGMGLD
PPRIEVASSVKLCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSK
AFTGREFDELNPSAQRDACLNARCFARVEPSHKSKIVEFLQSFDEITAMT
GDGVNDAPALKKAEIGIAMSGTAVAKTASEMVLADDNFSTIVAAVEEGR
AIYNNMKQFIRYLISNVGEVVCIFLTAALGFPEALIPVQLLWVNLVTDG
LPATALGFNPPDLDIMNKPPRNPKEPLISGWLFFRYLAIGCYVGAATVGA
AAWWFIAADGGPRVSFYQLSHFLQCKEDNPDEFEGVDCAIFESPPMTMAL
SVLVTIEMCNALNSLSENQSLLRMPWENIWLVGSICLSMFLHFLILYVE

PLPLIFQITPLNVTQWLMVLKISLPVILMDETLKFVARNYLEPGKECVQP
ATKSCSFSACTDGISWPFVLLIMPLVIWVYSTDTNFSDFMFW

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ATP2A2

Full Name

ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2

Introduction

This gene encodes one of the SERCA Ca²⁺-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of the skeletal muscle. 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. Other types of mutations in this gene have been associated with various forms of muscular dystrophies. Alternative splicing results in multiple transcript variants encoding different isoforms.

Alternative Names

ATP2A2; DD; DAR; ATP2B; SERCA2; sarcoplasmic/endoplasmic reticulum calcium ATPase 2; ATPase Ca⁺⁺ transporting cardiac muscle slow twitch 2; ATPase, Ca⁺⁺ dependent, slow-twitch, cardiac muscle-2; SR Ca²⁺-ATPase 2; calcium pump 2; cardiac Ca²⁺ ATPase; endoplasmic reticulum class 1/2 Ca²⁺ ATPase; ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2

Gene ID

[488](#)

UniProt ID

[P16615](#)