

Recombinant Human ATP2A2 protein, GST-tagged

Cat. No. ATP2A2-970H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP2A2 full-length ORF (NP_001672.1, 1 a.a. - 997 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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, Oct 2008]
Molecular Mass	136.1 kDa
AA Sequence	MENAHTKTVEEVLGHFGVNESTGLSLEQVKKLKERWGSNELPAEEGKTLLELVIEQF EDLLVRILLLAACISFVLAWFEEGEETITAFVEPFVILLILVANAIVGVWQERNAENAIEA LKEYEPEMGKVYRQDRKSVQRIKAKDIVPGDIVEIAVGDKVPADIRLTSIKSTTLRVDQ SILTGESVSVIKHTDPVPDPRAVNQDKKNMLFSGTNIAAGKAMGVVATGVNTEIGKI RDEMVAEQERTPLQQLDEFGEQLSKVISLICIAVWIINIGHFNDPVHGGSWIRGAII

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YFKIAVALAVAAIPEGLPAVITTCLALGTRRMAKKNAIVRSLPSVETLGCTSVICSDKT
GTLTTNQMSVCRMFILDRVEGDTCSLNEFTITGSTYAPIGEVHKDDKPVNCHQYDGL
VELATICALCNDSDALDYNEAKGVYEKVGAEATETALTCLVEKMNVDTELKGLSKIERA
NACNSVIKQLMKKEFTLEFSRDRKSMSVYCTPNKPSRTSMKMFVKGAPEGVIDRC
THIRVGSTKVPMTSGVKQKIMSVIREWGS GSDTLRCLALATHDNPLRREEMHLED
ANFIKYETNLTFVGCVGMLDPPRIEVASSVKLCRQAGIRVIMITGDNKGTAVAICRRIG
IFGQDEDVTSKFTGREFDELNPSAQRDACLNARCFARVEPSHKSKIVEFLQSFDEIT
AMTGDGVNDAPALKKAEIGIAMGSGTAVAKTASEMVLADDFSTIVA AVEEGRAIYN
NMKQFIRYLISNVGEVVCIFLTAALGFPEALIPVQLLWVNLVTDGLPATALGFNPPDL
DIMNKPPRNPKEPLISGWLFFRYLAIGCYVGAATVGAAAWWFIAADGGPRVSFYQLS
HFLQCKEDNPDFEGVDCAIFESPYPM TMA LSVLV TIEMCNALNSLSENQSLLRMP
WENIWLVGSLCSMSLHFLILYVEPLPLIFQITPLNVTQWLMVLKISLPVILMDETLKFV
ARNYLEPAILE

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION**Gene Name**

ATP2A2 ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2 [Homo sapiens (human)]

Official Symbol

ATP2A2

Synonyms

ATP2A2; ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2; DD;

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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 Ca(2+)-ATPase 2
calcium pump 2; calcium-transporting ATPase sarcoplasmic reticulum type, slow twitch skeletal muscle isoform; cardiac Ca²⁺ ATPase; endoplasmic reticulum class 1/2 Ca(2+) ATPase; EC 3.6.3.8

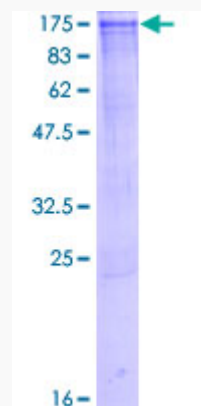
Gene ID 488

mRNA Refseq NM_001681

Protein Refseq NP_001672

MIM 108740

UniProt ID P16615



12.5% SDS-PAGE Stained with Coomassie Blue.

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