

Recombinant Full Length Human ATP2A1 Protein, GST-tagged

Cat. No. ATP2A1-1244HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP2A1 full-length ORF (NP_004311.1, 1 a.a. - 994 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	994 amino acids
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 to the sarcoplasmic reticulum lumen, and is involved in muscular excitation and contraction. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three transcript variants encoding different isoforms. [provided by RefSeq, Oct 2013]
Molecular Mass	135.7 kDa
AA Sequence	MEAAHAKTTE ECLAYFGVSE TTGLTPDQVK RNLEKYGLNE LPAEEGKTLW ELVIEQFEDL LVRILLAAAC ISFVLAWFEE GEETITAFVE PFVILLILIA NAIVGVWQER NAENAIEALK EYEPENGKVV RADRKSVQRI KARDIVPGDI VEVAVGDKVP ADIRILAIKS TTLRVDQSIL TGESVSVIKH TEPVPDPRAV NQDKKNMLFS GTNIAAGKAL GIVATTGVGT EIGKIRDQMA ATEQDKTPLQ

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QKLDEFGEQL SKVISLICVA VWLINIGHFN DPVHGGSWFR GAIYYFKIAV
 ALAVAAIPEG LPAVITTCLA LGTRRMAKKK AIVRSLPSVE TLGCTSVICS
 DKTGTLTTNQ MSVCKMFIID KVDGDICLLN EFSITGSTYA PEGEVKNDK
 PVRPGQYDGL VELATICALC NDSSLDNFNEA KGVYEKVGEA TETALTTLVE
 KMNVFNTDVR SLSKVERANA CNSVIRQLMK KEFTLEFSRD RKSMSVYCSP
 AKSSRAAVGN KMFVKGAPG VIDRCNYVRV GTTRVPLTGP VKEKIMAVIK
 EWGTGRDRTL CLALATRDTP PKREEMVLDD SARFLEYETD LTFVGVVGMML
 DPPRKEVTGS IQLCRDAGIR VIMITGDNKG TAIAICRRIG IFGENEEVAD
 RAYTGREFDD LPLAEQREAC RRACCFARVE PSHKSKIVEY LQSYDEITAM
 TGDGVNDAPA LKKAIEIGIAM GSGTAVAKTA SEMVLADDNF STIVAAVEEG
 RAIYNNMKQF IRYLISSNVG EVVCIFLTAA LGLPEALIPV QLLWVNLVTD
 GLPATALGFN PPDLDIMDRP PRSPKEPLIS GWLFFRYMAI GGYVGAATVG
 AAWWFLYAE DGPVHNYSQ LTHFMQCTEDN THFEGIDCEV FEAPEPMTMA
 LSVLVTIEMC NALNSLSENQ SLLRMPPWVN IWLLGSICLS MSLHFLILYV
 DPLPMIFKLR ALDLTQWLMV LKISLPVIGL DEILKFVARN YLEG

Applications

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

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

ATP2A1 ATPase, Ca⁺⁺ transporting, cardiac muscle, fast twitch 1 [Homo sapiens]

Official Symbol

ATP2A1

Synonyms

ATP2A1; ATPase, Ca⁺⁺ transporting, cardiac muscle, fast twitch 1; ATP2A;

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sarcoplasmic/endoplasmic reticulum calcium ATPase 1; SERCA1; calcium pump 1; SR Ca(2+)-ATPase 1; endoplasmic reticulum class 1/2 Ca(2+) ATPase; calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform

Gene ID 487

mRNA Refseq NM_004320

Protein Refseq NP_004311

MIM 108730

UniProt ID O14983

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