

Recombinant Human ATP2A1 protein, GST-tagged

Cat. No. ATP2A1-969H **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	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 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	MEAAHAKTTEECLAYFGVSETTGLTPDQVKRNLEKYGLNELPAEEGKTLWELVIEQF EDLLVRILLAAACISFVLAWFEEGEETITAFVEPFVILLILIANAIVGVWQERNAENAIEA LKEYEPEMGKVYRADRKSVQRIKARDIVPGDIVEVAVGDKVPADIRILAIKSTTLRVDQ SILTGESVSVIKHTEPVPDPRAVNQDKKNMLFSGTNIAAGKALGIVATTGVGTEIGKIR DQMAATEQDKTPLQKLDEFGEQLSKVISLICVAVWLINIGHFNDP VHGGSWFRGAI YYFKIAVALAVAAIPEGLPAVITTCALGTRMAKKNAIVRSLPSVETLGCTSVICSDKT

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GTLTTNQMSVCKMFIIDKVDGDICLLNEFSITGSTYAPEGEVLKNDKPVRPGQYDGLV
ELATICALCNDSSLDFNEAKGVYEKVGGEATETALTTLVEKMNVFNTDVRSLSKVERA
NACNSVIRQLMKKEFTLEFSRDRKSMSVYCSPAKSSRAAVGNKMFVKGAPEGVIDR
CNYVRVGTTTRVPLTGPVKEKIMAVIKEWGTGRDTRLCLALATRDTPPKREEMVLDD
SARFLEYETDLTFVGVVGMLDPPRKEVTGSIQLCRDAGIRVIMITGDNKGTAIAICRRI
GIFGENEEVADRAYTGREFDDLPLAEQREACRRACCFARVEPSHKSKIVEYLQSYD
EITAMTGDGVNDAPALKKAEIGIAMGSGTAVAKTASEMVLADDNFSTIVAAVEEGRAI
YNNMKQFIRYLISSNVGEVVCIFLTAALGLPEALIPVQLLWVNLVTDGLPATALGFNPP
DLDIMDRPPRSPKEPLISGWLFFRYMAIGGYVGAATVGAAAWWFLYAEDGPHVNYS
QLTHFMQCTEDNTHFEGIDCEVFEAPEPMTMALSVLVTIEMCNALNSLSENQSLLRM
PPWVNIWLLGSICLSMSLHFLILYVDPLPMIFKLRLDLTQWLMVLKISLPVIGLDEILK
FVARNYLEG

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

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;
sarcoplasmic/endoplasmic reticulum calcium ATPase 1; SERCA1; calcium pump 1;
SR Ca(2+)-ATPase 1; endoplasmic reticulum class 1/2 Ca(2+) ATPase; calcium-

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transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform;

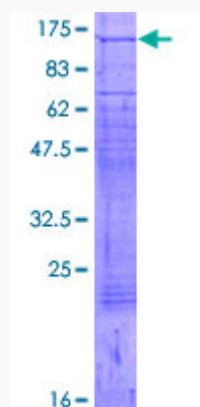
Gene ID 487

mRNA Refseq NM_004320

Protein Refseq NP_004311

MIM 108730

UniProt ID O14983



12.5% SDS-PAGE Stained with Coomassie Blue.

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