

Recombinant Human ATP2A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP2A1-6120H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP2A1 MS Standard C13 and N15-labeled recombinant protein (NP_775293) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	110.1 kDa
AA Sequence	MEAAHAKTTEECLAYFGVSETTGLTPDQVKRNLEKYGLNELPAEEGKTLWELVIEQF EDLLVRILLLAACISFVLAWFEEGEETITAFVEPFVILLILIANAIVGVWQERNAENAIEA LKEYEPEMGKVYRADRKSVQRIKARDIVPGDIVEVAVGDKVPADIRILAIKSTTLRVDQ SILTGESVSVIKHTEPVPDPRAVNQDKKNMLFSGTNIAAGKALGIVATTGVGTEIGKIR DQMAATEQDKTPLQQLDEFGEQLSKVISLICVAVWLINIGHFNDPVHGGSWFRGAI

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YYFKIAVALAVAAIPEGLPAVITTCALGTRRMakKNAIVRSLPSVETLGCTSVICSDKT
GTLTTNQMSVCKMFIIDKVDGDICLLNEFSITGSTYAPEGEVLKNDKPVRPGQYDGLV
ELATICALCNDSSLDNFNEAKGVYEKVGATETALTTLVEKMNVFNTDVRSLSKVERA
NACNSVIRQLMKKEFTLEFSRDRKSMSVYCSPAKSSRAAVGNKMFVKGAPEGVIDR
CNYVRVGTTTRVPLTGPVKEKIMAVIKEWGTGRDTRLRCLALATRDTPPKREEMVLDD
SARFLEYETDLTFVGVVGM LDPPRKEVTGSIQLCRDAGIRVIMITGDNKGTAIAICRRI
GIFGENEEVADRAYTGREFDDLPLAEQREACRRACCFARVEPSHKSKIVEYLQSYD
EITAMTGDGVNDAPALKKAEIGIAMSGTAVAKTASEMVLADDNFSTIVAAVEEGRAI
YNNMKQFIRYLISSNVGEVVCIFLTAALGLPEALIPVQLLWVNLVTDGLPATALGFNPP
DLDIMDRPPRSPKEPLISGWLFFRYMAIGGYVGAATVGAAAWWFLYAEDGPHVNYS
QLTHFMQCTEDNTHFEGIDCEVFEAPEPMTMALSVLVTIEMCNALNSLSENQSLLRM
PPWVNIWLLGSICLSMSLHFLILYVDPLPMIFKLRALDLTQWLMVLKISLPVIGLDEILK
FVARNYLEDPEDERRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ATP2A1 ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 1 [Homo sapiens (human)]

Official Symbol ATP2A1

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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-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform;
Gene ID	487
mRNA Refseq	NM_173201
Protein Refseq	NP_775293
MIM	108730
UniProt ID	O14983
SDS-PAGE	