

Recombinant Full Length Human ATP2A2 Protein, GST-tagged

Cat. No. ATP2A2-1245HF **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	In Vitro Cell Free System
ProteinLength	997 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 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	MENAHTKTVE EVLGHFGVNE STGLSLEQVK KLKERWGSNE LPAEEGKTL ELVIEQFEDL LVRILLLAAC ISFVLAWFEE GEETITAFVE PFVILLILVA NAIVGVWQER NAENAIEALK EYEPENGKVV RQDRKSVQRI KAKDIVPGDI VEIAVGDKVP ADIRLTSIKS TTLRVDQSIL TGESVSVIKH TDPVPDPRAV

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NQDKKNMLFS GTNIAAGKAM GVVVATGVNT EIGKIRDEMVA TEQERTPLQ
 QKLDEFGEQL SKVISLICIA VWIINIGHFN DPVHGGSWIR GAIYYFKIAV
 ALAVAAIPEG LPAVITTCLA LGTRRMAKKN AIVRSLPSVE TLGCTSVICS
 DKTGTLTTNQ MSVCRMFILE RVEGDTCSLN EFTITGSTYA PIGEVHKDDK
 PVNCHQYDGL VELATICALC NDSALDYNEA KGVYEKVGEA TETALTCLVE
 KMNVFDETELK GLSKIERANA CNSVIKQLMK KEFTLEFSRD RKSMSVYCTP
 NKPSRTSMSK MFVKGAPEGV IDRCTHIRVG STKVPMTSGV KQKIMSVIRE
 WGSGSDTLRC LALATHDNPL RREEMHLEDN ANFIKYETNL TFGVCVGMMLD
 PPRIEVASSV KLCRQAGIRV IMITGDNKGT AVAICRRIGI FGQDEDVTSK
 AFTGREFDEL NPSAQRDACL NARCFARVEP SHKSKIVEFL QSFDEITAMT
 GDGVNDAPAL KKAIEIGIAMG SGTAVAKTAS EMVLADDNFS TIVAAVEEGR
 AIYNNMKQFI RYLISSNVGE VVCIFLTAAL GFPEALIPVQ LLWVNLVTDG
 LPATALGFNP PDLDIMNKPP RNPKEPLISG WLFFRYLAIG CYVGAATVGA
 AAWWFIAADG GPRVSFYQLS HFLQCKEDNP DFEGVDCAIF ESPYPMTMAL
 SVLVTIEMCN ALNSLSENQS LLRMPPWENI WLVGSIKLSM SLHFLILYVE
 PLPLIFQITP LNVQTQWLMVL KISLPVILMD ETLKFVARNY LEPAILE

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

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

Official Symbol

ATP2A2

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Synonyms	ATP2A2; ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 2; 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 Ca(2+)-ATPase 2 calcium pump 2; calcium-transporting ATPase sarcoplasmic reticulum type, slow twitch skeletal muscle isoform; cardiac Ca ²⁺ 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