Recombinant Human ATP2A2 Protein, His-tagged

Cat. No. ATP2A2-266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP2A2 Protein (Ile315-Met756) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile315-Met756
Description	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of the skeletal muscle. 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. Other types of mutations in this gene have been associated with various forms of muscular dystrophies. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 51.9 kDa Accurate Molecular Mass: 56 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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; 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; cardiac Ca2+ ATPase; endoplasmic reticulum class 1/2 Ca(2+) ATPase; EC 7.2.2.10
Gene ID	488

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mRNA Refseq	NM_001681
Protein Refseq	NP_001672
MIM	108740
UniProt ID	P16615

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