

RPG374Hu02 1

Recombinant ATPase, Ca++ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2) Organism Species: *Homo sapiens (Human)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

Coud-Clone Corp.

[PROPERTIES]

Source: Prokaryotic expression Host: E.coli Residues: Ile315~Met756 Tags: N-terminal His Tag Subcellular Location: Membrane **Purity:** > 90% Traits: Freeze-dried powder **Buffer formulation:** PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Original Concentration: 100µg Applications: Positive Control; Immunogen; SDS-PAGE; WB. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 6.7 Predicted Molecular Mass: 51.9kDa Accurate Molecular Mass: 56kDa as determined by SDS-PAGE reducing conditions. Phenomenon explanation: The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc. [<u>USAGE</u>]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.



Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: 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°C 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.

[SEQUENCE]

ITTCLALGTRRMAKKNAIVRSLPSVETLGCTSVICSDKTGTLTTNQ MSVCRMFILDRVEGDTCSLNEFTITGSTYAPIGEVHKDDKPVNCHQYDGLVELATICALC NDSALDYNEAKGVYEKVGEATETALTCLVEKMNVFDTELKGLSKIERANACNSVIKQLMK KEFTLEFSRDRKSMSVYCTPNKPSRTSMSKMFVKGAPEGVIDRCTHIRVGSTKVPMTSGV KQKIMSVIREWGSGSDTLRCLALATHDNPLRREEMHLEDSANFIKYETNLTFVGCVGMLD PPRIEVASSVKLCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSKAFTGREFDEL NPSAQRDACLNARCFARVEPSHKSKIVEFLQSFDEITAMTGDGVNDAPALKKAEIGIAMG SGTAVAKTASEMVLADDNFSTIVAAVEEGRAIYNNM

[IDENTIFICATION]

	kD 70
-	44
	33
	26
	22
	18
	14
	10

[<u>IMPORTANT NOTE</u>]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.