

RPE912Ra01 100µg Recombinant Sirtuin 1 (SIRT1) Organism Species: *Rattus norvegicus (Rat) Instruction manual* 

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

# Cond-Clone Corp.

# [PROPERTIES]

Source: Prokaryotic expression Host: E.coli Residues: Lys238~Ala482 Tags: Two N-terminal Tags, His-tag and SUMO-tag Subcellular Location: Nucleus, Cytoplasm **Purity:** > 95% Traits: Freeze-dried powder **Buffer formulation:** PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose. Original Concentration: 200µg/mL 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: 4.7** Predicted Molecular Mass: 31.4kDa Accurate Molecular Mass: 40kDa 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]

KDEVDLLIVIGSSLKVRPVALIPSSIPHEVPQILINREPLPHLHFDVELLGDCDVIINELCHRLGGEY AKLCCNPVKLSEITEKPPRTQKELVHLSELPPTPLHISEDSSSPERTVPQDSSVIATLVDQTIKNKV DDLEVSEPKSCVEEKSQEVQTYRNVESINVENPDFKAVGSSTGDKNERTSVAETVRKCWPNRLA KEQISKRLDGNQYLFVPPNRYIFHGAEVYSDSEDDALSSSSCGSNS

### [IDENTIFICATION]

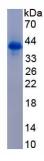


Figure. SDS-PAGE

#### [IMPORTANT NOTE]

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.