

RPD525Hu01 10µg

Recombinant Heat Shock Protein 75kDa, Mitochondrial (HSP75)

Organism Species: *Homo sapiens (Human)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Prokaryotic expression

Host: *E.coli*

Residues: Ser60~His704

Tags: N-terminal His Tag

Subcellular Location: Secreted

Purity: > 95%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.

Original Concentration: 1000µg/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: 6.5

Predicted Molecular Mass: 77.3kDa

Accurate Molecular Mass: 84kDa 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 affect 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.

[USAGE]

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]

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      S  TQTAEDKEEP  LHSIISSTES  VQGSTSKHEF  QAETKKLLDI
VARSLYSEKE  VFIRELISNA  SDALEKLRHK  LVSDGQALPE  MEIHLQTNAE
KGTITIQDTG  IGMTQEELVS  NLGTIARSGS  KAFLDALQNN  AEASSKIIGQ
FGVGFYSAFM  VADRVVYSR  SAAPGSLGYQ  WLSGSGVFE  IAEASGVRTG
TKIIHLKSD  CKEFSSEARV  RDVVTKYSNF  VSFPLYLNGR  RMNTLQAIWM
MDPKDVREWQ  HEEFYRYVAQ  AHDKPRYTLH  YKTDAPLNIR  SIFYVPDMKP
SMFDVSRELG  SSVALYSRKV  LIQTKATDIL  PKWLRFIRGV  VDSEDIPLNL
SRELLQESAL  IRKLRDVLQQ  RLIKFFIDQS  KKDAEKYAKF  FEDYGLFMRE
GIVTATEQEV  KEDIAKLLRY  ESSALPSGQL  TSLSEYASRM  RAGTRNIYYL
CAPNRHLAEH  SPYYEAMKKK  DTEVLFCFEQ  FDELTLLHLR  EFDKKKLISV
ETDIVVDHYK  EEKFEDRSPA  AECLSEKETE  ELMAWMRNVL  GSRVTNVKVT
LRLDTHPAMV  TVLEMGAARH  FIRMQLAKT  QEERAQLLQP  TLEINPRHAL
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LERH
  
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[IDENTIFICATION]

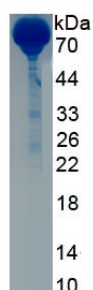


Figure. SDS-PAGE

[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.