RPB081Mu01 1.5mg Recombinant Heat Shock 70kDa Protein 1A (HSPA1A) Organism Species: Mus musculus (Mouse) Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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11th Edition (Revised in May, 2016)

[PROPERTIES]

Source: Prokaryotic expression.

Host: E. coli Residues: Met1~Asp641 Tags: N-terminal His-Tag Tissue Specificity: Liver, Brain. Subcellular Location: Cytoplasm. **Purity:** >95% Traits: Freeze-dried powder Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300. Original Concentration: 200ug/mL Applications: SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 5.7 Predicted Molecular Mass: 71.3kDa

Accurate Molecular Mass: 60kDa 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.

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- 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 20mM Tris, 150mM NaCl (pH8.0) 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.

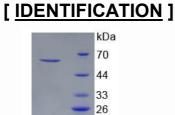
Aliquot and store at -80°C for 12 months.

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.

[<u>SEQUENCE</u>]

MAKNTAIGID	LGTTYSCVGV	FQHGKVEIIA	NDQGNRTTPS	YVAFTDTERL
IGDAAKNQVA	LNPQNTVFDA	KRLIGRKFGD	AVVQSDMKHW	PFQVVNDGDK
PKVQVNYKGE	SRSFFPEEIS	SMVLTKMKEI	AEAYLGHPVT	NAVITVPAYF
NDSQRQATKD	AGVIAGLNVL	RIINEPTAAA	IAYGLDRTGK	GERNVLIFDL
GGGTFDVSIL	TIDDGIFEVK	ATAGDTHLGG	EDFDNRLVSH	FVEEFKRKHK
KDISQNKRAV	RRLRTACERA	KRTLSSSTQA	SLEIDSLFEG	IDFYTSITRA
RFEELCSDLF	RGTLEPVEKA	LRDAKMDKAQ	IHDLVLVGGS	TRIPKVQKLL
QDFFNGRDLN	KSINPDEAVA	YGAAVQAAIL	MGDKSENVQD	LLLLDVAPLS
LGLETAGGVM	TALIKRNSTI	PTKQTQTFTT	YSDNQPGVLI	QVYEGERAMT
RDNNLLGRFE	LSGIPPAPRG	VPQIEVTFDI	DANGILNVTA	TDKSTGKANK
ITITNDKGRL	SKEEIERMVQ	EAERYKAEDE	VQRDRVAAKN	ALESYAFNMK
SAVEDEGLKG	KLSEADKKKV	LDKCQEVISW	LDSNTLADKE	EFVHKREELE
RVCSPIISGL	YQGAGAPGAG	GFGAQAPKGA	SGSGPTIEEV	D





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18 14 10

Figure 2. SDS-PAGE

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