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**YBA822Hu01 50µg**  
**Recombinant Heat Shock 60kD Protein 1, Chaperonin (HSPD1)**  
**Organism Species: Homo sapiens (Human)**  
***Instruction manual***

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

10th Edition (Revised in Jan, 2014)

**[ PROPERTIES ]**

**Residues: Met1~Phe573**

**Tags: N-terminal His-Tag**

**Accession: P10809**

**Host: *E. coli***

**Subcellular Location: Mitochondrion matrix.**

**Purity: >95%**

**Endotoxin Level: <1.0EU per 1µg**

**(determined by the LAL method).**

**Formulation: Supplied as lyophilized form in 20mM**

**Tris, 150mM NaCl, pH8.0, containing 0.01% sarcosyl**  
**and 5% trehalose.**

**Predicted isoelectric point: 6.1**

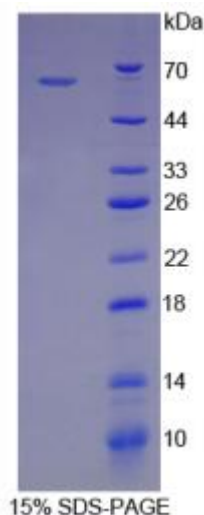
**Predicted Molecular Mass: 62.3kDa**

**Applications: SDS-PAGE; WB; ELISA; IP.**

**(May be suitable for use in other assays to be determined by the end user.)**

**[ USAGE ]**

**Reconstitute in sterile ddH<sub>2</sub>O.**





## **[ 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 of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## **[ SEQUENCES ]**

**The sequence of the target protein is listed below.**

MLRLPTVFRQ MRPVSRVLAP HLTRAYAKDV KFGADARALM LQGVDLLADA VAVTMGPKGR  
TVIEQSWGGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD VANNTNEEAG DGTSTATVLA  
RSIAKEGFEEK ISKGANPVEI RRGVMLAVDA VIAELKKQSK PVTTPEEIAQ VATISANGDK  
EIGNIISDAM KKVGRKGVIT VKDGKTLNDE LEIEGMMKFD RGYISPYFIN TSKGQKCEFQ  
DAYVLLSEKK ISSIQSIVPA LEIANHRKP LVIIAEDVDG EALSTLVNLR LKVGQLQVVAV  
KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH DLGKVGEVIV TKDDAMLLKG  
KGDKAQIEKR IQEIIQLDV TTSEYEKEKL NERLAKLSDG VAVLKVGGS DVEVNEKKDR  
VTDALNATRA AVEEGIVLGG GCALLRCIPA LDSLTPANED QKIGIEIIR TLKIPAMTIA  
KNAGVEGSLI VEKIMQSSSE VGYDAMAGDF VNMVEKGIID PTKVVRTALL DAAGVASLLT  
TAEVVTEIP KEEKDPGMGA MGGMGGGMGG GMF

## **[ REFERENCES ]**

1. Magen D., *et al.* (2008) *Am. J. Hum. Genet.* 83:30-42.
2. Merle N., *et al.* (2012) *Mitochondrion* 12:441-448.
3. Peng C., *et al.* (2011) *Mol. Cell. Proteomics* 10:M111.012658.01-M111.012658.12.
4. Burkard T.R., *et al.* (2011) *BMC Syst. Biol.* 5:17-17.