



**YBA399Mu01 100µg**  
**Recombinant High Mobility Group Protein 1 (HMG1)**  
**Organism Species: Mus musculus (Mouse)**  
***Instruction manual***

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

11th Edition (Revised in May, 2016)

**[ PROPERTIES ]**

**Source:** Prokaryotic expression.

**Host:** *E. coli*

**Residues:** Met1~Glu215

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

**Tissue Specificity:** Liver, Brain.

**Subcellular Location:** Nucleus. Cytoplasm. Chromosome.

**Purity:** >92%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl 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:** 5.6

**Predicted Molecular Mass:** 26.2kDa

**Accurate Molecular Mass:** 33kDa as determined by SDS-PAGE reducing conditions.

**Phenomenon explanation:**

The possible reasons that the actual band size differs from the predicted are as follows:



TEL:4006-871-227 Web:www.ybio.net Email:shybio@126.com

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.

## [ USAGE ]

Reconstitute in 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 ]

```
MGKGDPPKKPR GKMSSYAFFV QTCREEHKKK HPDASVNFSE FSKKCSERWK  
TMSAKEKGKF EDMAKADKAR YEREMKTYIP PKGETKKKFK DPNAPKRPPS  
AFFLFCSEYR PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPYEKKA  
LKEYEKDIA AYRAKGPDA AKKGVVKA EK SKKKKEEEDD EEEDEDEEEE  
EEEEDEDEEEE DDDDE
```

## [ IDENTIFICATION ]

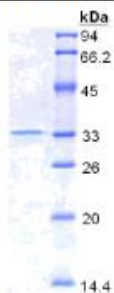


Figure 2. SDS-PAGE



TEL:4006-871-227 Web:[www.ybio.net](http://www.ybio.net) Email:[shybio@126.com](mailto:shybio@126.com)