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**YBA599Mu01 10 $\mu$ g**  
**Recombinant Granzyme A (GZMA)**  
**Organism Species: *Mus musculus* (Mouse)**  
***Instruction manual***

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

9th Edition (Revised in Jul, 2013)

**[ PROPERTIES ]**

**Residues: Ile29~Val260 (Accession # P11032), with N-terminal His-Tag.**

**Host: *E. coli***

**Subcellular Location: Secreted; Cytoplasmic granule.**

**Purity: >95%**

**Endotoxin Level: <1.0EU per 1 $\mu$ g (determined by the LAL method).**

**Formulation: Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.**

**Predicted isoelectric point: 9.4**

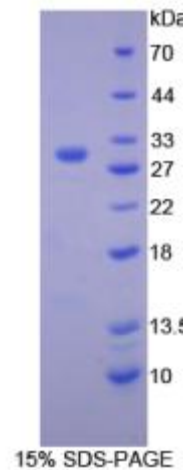
**Predicted Molecular Mass: 27.2kDa**

**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 PBS, pH7.2-pH7.4.**





## **[ 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 target protein is fused with N-terminal His-Tag, its sequence is listed below.

MGHHHHHSGSEF-II GGDTVPHSR PYMALLKLSS NTICAGALIE KNWVLTAHHC  
NVGKRSKFIL GAHSINKEPE QQILTVKKAF PYPCYDEYTR EGDQLVRLK KKATVNRNVA  
ILHLPKKGDD VKPGTRCRVA GWGRFGNKSA PSETLREVNI TVIDRKICND EKHYNFHPVI  
GLNMICAGDL RGGKDSCNGD SGSPLLCDGI LRGITSFGGE KCGDRRWPGV YTFLSDKHLN  
WIKKIMKGSV

## **[ REFERENCES ]**

1. Ebnet K., *et al.* (1992) *Genomics* 13:502-508.
2. Hershberger R.J., *et al.* (1992) *J. Biol. Chem.* 267:25488-25493.
3. Jenne D.E., Tschopp J. (1988) *Immunol. Rev.* 103:53-71.
4. Simon H.G., *et al.* (1988) *Eur. J. Immunol.* 18:855-861.