

**RPB964Hu02 10 $\mu$ g**  
**Recombinant Calpain 1, Large Subunit (CAPN1)**  
**Organism Species: Homo sapiens (Human)**  
***Instruction manual***

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

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12th Edition (Revised in Aug, 2016)

## [ **PROPERTIES** ]

**Source:** Prokaryotic expression.

**Host:** *E. coli*

**Residues:** Lys426~Val676

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

**Tissue Specificity:** Kidney, Pancreas, Placenta.

**Subcellular Location:** Cytoplasm. Cell membrane.

**Purity:** >95%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.

**Original Concentration:** 200µg/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:** 6.3

**Predicted Molecular Mass:** 30.5kDa

**Accurate Molecular Mass:** 31kDa as determined by SDS-PAGE reducing conditions.

## [ **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.

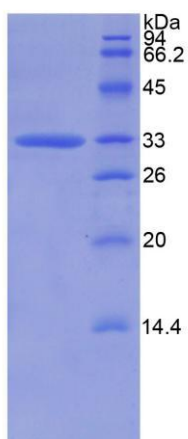
Aliquot and store at -80°C for 12 months.

**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 ]**

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                KHRRR  ERRFGRDMET  IGFVYEVPP
ELVGQPAVHL  KRDFFLANAS  RARSEQFINL  REVSTRFRLP  PGEYVVVPST
FEPNKEGDFV  LRFFSEKSAG  TVELDDQIQA  NLPDEQVLSE  EEIDENFKAL
FRQLAGEDME  ISVKELRTIL  NRIISKHKDL  RTKGFSLESC  RSMVNLMDRD
GNGKLGLEVF  NILWNRIRNY  LSIFRKFDLD  KSGMSAYEM  RMAIESAGFK
LNKKLYELII  TRYSEPD LAV  DFDNFV
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**[ IDENTIFICATION ]**



**Figure 1. SDS-PAGE**