

**PAB964Ra02**  
**Polyclonal Antibody to Calpain 1, Large Subunit (CAPN1)**  
**Organism Species: Rattus norvegicus (Rat)**  
***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:** Polyclonal antibody preparation

**Host:** Rabbit

**Purification:** Antigen-specific Affinity Chromatography.

**Traits:** Liquid

**Concentration:** 200µg/mL

**UOM:** 100µg

**Applications:** WB; IHC; ICC; IP.

## **[ IMMUNOGEN ]**

**Immunogen:** Recombinant CAPN1 (Tyr387~Asp694) expressed in *E.coli*.

**Accession No.:** RPB964Ra02

## **[ APPLICATIONS ]**

Western blotting: 0.5-5µg/mL

Immunohistochemistry: 5-20µg/mL

Immunocytochemistry: 5-20µg/mL

Optimal working dilutions must be determined by end user.

## **[ FORMULATION ]**

**Form & Buffer:** Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.

## **[ QUALITY CONTROL ]**

**Content:** The quality control contains recombinant CAPN1 disposed in loading buffer.

**Usage:** 10uL per well when 3,3'-Diaminobenzidine(DAB) as the substrate.  
5uL per well when used in enhanced chemiluminescent (ECL).

**Note:** The quality control is specifically manufactured as the positive control. Not used for other purposes.

**Loading Buffer:** 100mM Tris(pH6.8), 1% SDS, 150mM NaCl, 50% glycerol, 0.02% BPB, 50mM DTT and 0.02% NaN<sub>3</sub>.

## [ **STORAGE AND STABILITY** ]

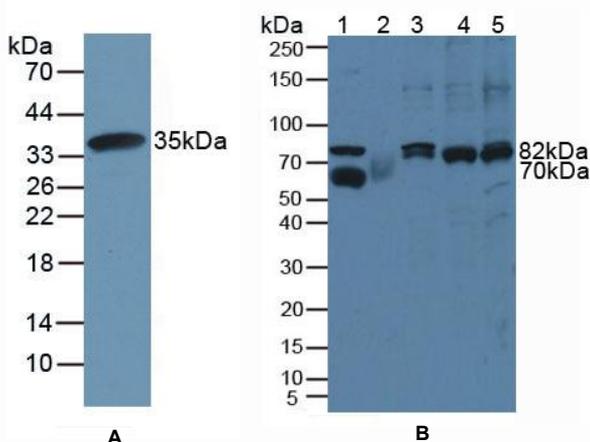
**Storage:** Avoid repeated freeze/thaw cycles.

Store at 4°C for frequent use.

Aliquot and store at -20°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.

## [ **IDENTIFICATION** ]



**Figure 1. Western Blot**

**A. Sample: Recombinant CAPN1, Rat**

**B. Lane1: Rat Serum**

Lane2: Rat Testis Tissue

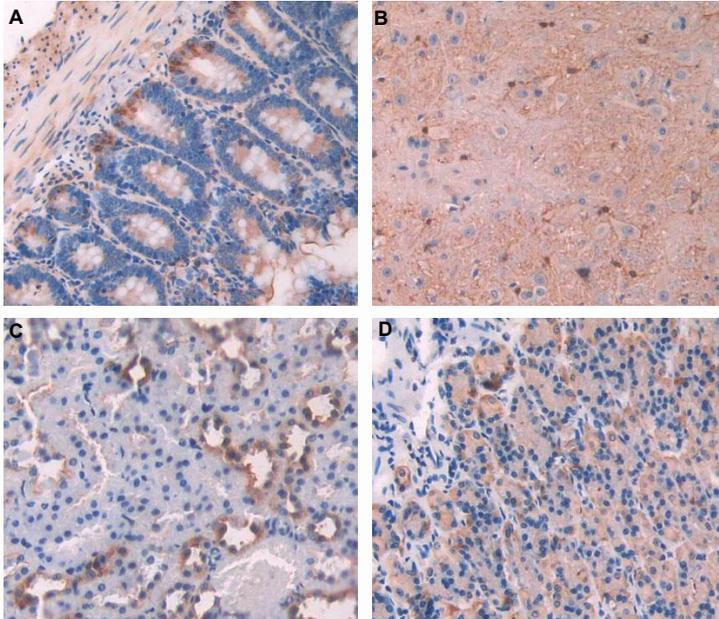
Lane3: Human HeLa Cells

Lane4: Human A431 Cells

Lane5: Human Jurkat Cells

Primary Ab: 3µg/mL Rabbit Anti-Rat CAPN1 Ab

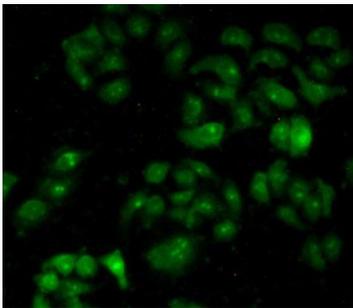
Second Ab: 1:2000 Dilution of HRP-Linked Guinea pig Anti-Rabbit Ab (Catalog: SAA544Rb59)



**Figure 2. DAB staining on IHC-P**

**Samples:**

- A. Rat Intestine Tissue
- B. Rat Spinal Cord Tissue
- C. Rat Kidney Tissue
- D. Rat Stomach Tissue



**Figure 3. FITC staining on IHC-P**

**Samples:**

- Human Hela Cells