

A8859

Leader in Biomolecular Solutions for Life Science



# Calpain small subunit 1 Rabbit mAb

Catalog No.: A8859

Recombinant

## Basic Information

### Observed MW

28kDa

### Calculated MW

28kDa

### Category

SMab Recombinant Monoclonal  
Antibody

### Applications

WB,ELISA

### Cross-Reactivity

Human,Mouse,Rat

### CloneNo number

ARC1326

## Background

This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene. This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has been defined on chromosome 1. Alternative splicing results in multiple transcript variants.

## Recommended Dilutions

WB 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

826

### Swiss Prot

P04632

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

CANP; CDPS; CSS1; CANPS; CAPN4; CALPAIN4; Calpain small subunit 1

## Contact

 [www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

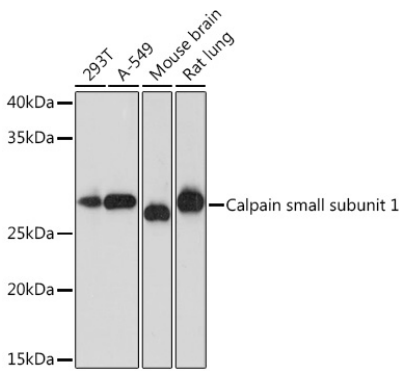
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

# Validation Data



Western blot analysis of various lysates using Calpain small subunit 1 Rabbit mAb (A8859) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Enhanced Kit (RM00021).  
Exposure time: 3min.