

**Calpain 1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10155****Specification**

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**Calpain 1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P97571</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	82119

**Calpain 1 Antibody - Additional Information****Gene ID** 29153**Application & Usage**

**Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The anti-calpain I antibody recognizes the large subunit (80 kDa) of human Calpain 1. It does not recognize the smaller subunit of human Calpain 1.**

**Other Names**  
EC 3.4.22.52, CAPN2**Target/Specificity**  
Calpain 1**Antibody Form**  
Liquid**Appearance**  
Colorless liquid**Formulation**  
100 µg (0.5 mg/ml) affinity purified rabbit anti-calpain 1 (large subunit) antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.**Handling**  
The antibody solution should be gently mixed before use.**Reconstitution & Storage**  
-20 °C**Background Descriptions**

**Precautions**

Calpain 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Calpain 1 Antibody - Protein Information**

**Name** Capn1 {ECO:0000312|RGD:2267}

**Function**

Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves CTBP1 at 'Asn-364', 'Gly-377' and 'His-399'. Cleaves and activates caspase-7 (CASP7).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:P07384}. Cell membrane {ECO:0000250|UniProtKB:P07384}.  
Note=Translocates to the plasma membrane upon Ca(2+) binding.  
{ECO:0000250|UniProtKB:P07384}

**Calpain 1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Calpain 1 Antibody - Images****Calpain 1 Antibody - Background**

Calpains are cytosolic, calcium-dependent, cysteine proteases that are ubiquitously expressed in mammalian and avian tissues. Type I calpain requires micromolar amounts of calcium, while type II calpain requires millimolar amounts of calcium.