

**Calpain-2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10275****Specification**

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**Calpain-2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P17655</a>
Other Accession	<a href="#">NP_001739</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	79995

**Calpain-2 Antibody - Additional Information****Gene ID** 824

Application & Usage	<b>Western blotting (1:200-1000 dilutions). However, the optimal concentrations should be determined individually. The anti-calpain 2 antibody recognizes the 80 kDa Calpain 2. It does not cross-react with other calpains</b>
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**Other Names**

M-Calpain , Calpain 2 , Calpian II , CANPL2 , CANP2 , millimolar-calpain , mCANP , FLJ39928 , CANPml , EC 3.4.22.53

**Target/Specificity**

Calpain 2

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µl affinity purified rabbit polyclonal anti-calpain 2 antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions**

**Precautions**

Calpain-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Calpain-2 Antibody - Protein Information**

**Name** CAPN2

**Synonyms** CANPL2

**Function**

Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves MYOC at 'Arg-226' (PubMed:<a href="http://www.uniprot.org/citations/17650508" target="\_blank">17650508</a>). Proteolytically cleaves CPEB3 following neuronal stimulation which abolishes CPEB3 translational repressor activity, leading to translation of CPEB3 target mRNAs (By similarity).

**Cellular Location**

Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding

**Tissue Location**

Ubiquitous.

**Calpain-2 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-2 Antibody - Images****Calpain-2 Antibody - Background**

Calpains are cytosolic, calcium-dependent, cysteine proteases that are ubiquitously expressed in mammalian and avian tissues. Calpain-1 and 2 consist of a common small subunit and a large variable subunit. Domains in the large subunit include the amino terminal domain I, the proteinase domain II, domain III, and the EF-hand domain IV. Type I calpain requires micromolar amounts of calcium, while type II calpain requires millimolar amounts of calcium.