

**KD-Validated Anti-Calpain 1 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1193****Specification****KD-Validated Anti-Calpain 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P07384</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 82 kDa, observed, 75 kDa kDa
Gene Name	CAPN1
Aliases	CAPN1; Calpain 1; CANPL1; MuCANP; CANP; Cell Proliferation-Inducing Gene 30 Protein; Calcium-Activated Neutral Proteinase 1; Calpain 1, (Mu/I) Large Subunit; Calpain-1 Catalytic Subunit; Calpain-1 Large Subunit; Micromolar-Calpain; Calpain Mu-Type; EC 3.4.22.52; CANP; MuCL; Cell Proliferation-Inducing Protein 30; Calpain, Large Polypeptide L1; EC 3.4.22; MUCANP; CANP1; SPG76; MUCL
Immunogen	A synthesized peptide derived from human Calpain 1 catalytic subunit

**KD-Validated Anti-Calpain 1 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	823
<b>Other Names</b>	Calpain-1 catalytic subunit, 3.4.22.52, Calcium-activated neutral proteinase 1, CANP 1, Calpain mu-type, Calpain-1 large subunit, Cell proliferation-inducing gene 30 protein {ECO:0000303 Ref.3}, Micromolar-calpain, muCANP, CAPN1 ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1476" target="_blank">http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1476</a> ), CANPL1

**KD-Validated Anti-Calpain 1 Rabbit Monoclonal Antibody - Protein Information****Name** CAPN1 ([HGNC:1476](#))**Synonyms** CANPL1**Function**

Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction (PubMed:[19617626](http://www.uniprot.org/citations/19617626), PubMed:[21531719](http://www.uniprot.org/citations/21531719), PubMed:

href="http://www.uniprot.org/citations/2400579" target="\_blank">2400579</a>). Proteolytically cleaves CTBP1 at 'Asn-375', 'Gly-387' and 'His-409' (PubMed:<a href="http://www.uniprot.org/citations/23707407" target="\_blank">23707407</a>). Cleaves and activates caspase-7 (CASP7) (PubMed:<a href="http://www.uniprot.org/citations/19617626" target="\_blank">19617626</a>).

#### Cellular Location

Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding. In granular keratinocytes and in lower corneocytes, colocalizes with FLG and FLG2 (PubMed:21531719)

#### Tissue Location

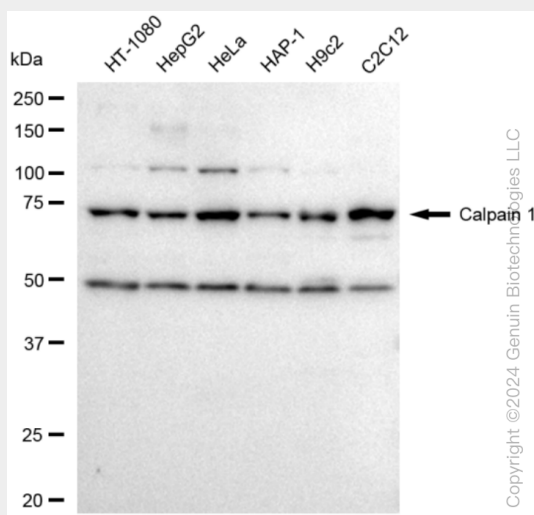
Ubiquitous.

### KD-Validated Anti-Calpain 1 Rabbit Monoclonal 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](#)

### KD-Validated Anti-Calpain 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Calpain 1 antibody (Cat#AGI1193). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Calpain 1 antibody (Cat#AGI1193, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

