

**CAPN1 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3946a

**Specification**

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**CAPN1 Antibody (internal region) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P07384</a>
Other Accession	<a href="#">NP_005177.2</a> , <a href="#">823</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	81890

**CAPN1 Antibody (internal region) - Additional Information**

**Gene ID** 823

**Other Names**

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, Micromolar-calpain, muCANP, CAPN1, CANPL1

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CAPN1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**CAPN1 Antibody (internal region) - 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:<a href="http://www.uniprot.org/citations/19617626" target="\_blank">19617626</a>, PubMed:<a href="http://www.uniprot.org/citations/21531719" target="\_blank">21531719</a>, PubMed:<a href="http://www.uniprot.org/citations/21531719" target="\_blank">21531719</a>, PubMed:<a href="http://www.uniprot.org/citations/21531719" target="\_blank">21531719</a>)

[2400579](http://www.uniprot.org/citations/2400579)). Proteolytically cleaves CTBP1 at 'Asn-375', 'Gly-387' and 'His-409' (PubMed:[23707407](http://www.uniprot.org/citations/23707407)). Cleaves and activates caspase-7 (CASP7) (PubMed:[19617626](http://www.uniprot.org/citations/19617626)).

#### 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.

### CAPN1 Antibody (internal region) - Protocols

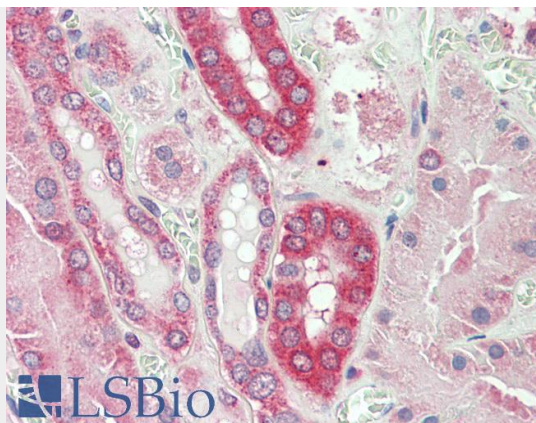
Provided below are standard protocols that you may find useful for product applications.

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

### CAPN1 Antibody (internal region) - Images



AF3946a (0.3 µg/ml) staining of Human Spleen lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.



AF3946a (5 µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **CAPN1 Antibody (internal region) - Background**

Reported variants represent identical protein: NP\_001185797.1, NP\_005177.2, NP\_001185798.1.

#### **CAPN1 Antibody (internal region) - References**

Calpain-1 cleaves Rad21 to promote sister chromatid separation. Panigrahi AK, Zhang N, Mao Q, Pati D. Mol Cell Biol. 2011 Nov;31(21):4335-47. PMID: 21876002