

CAPN1 / Calpain 1 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS16293**Specification**

CAPN1 / Calpain 1 Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	P07384
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	82kDa KDa

CAPN1 / Calpain 1 Antibody (Internal) - 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

Target/Specificity

Human CAPN1 / Calpain 1. Reported variants represent identical protein: NP_001185797.1, NP_005177.2, NP_001185798.1.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

CAPN1 / Calpain 1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

CAPN1 / Calpain 1 Antibody (Internal) - 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: [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))

target="_blank">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 / Calpain 1 Antibody (Internal) - Protocols

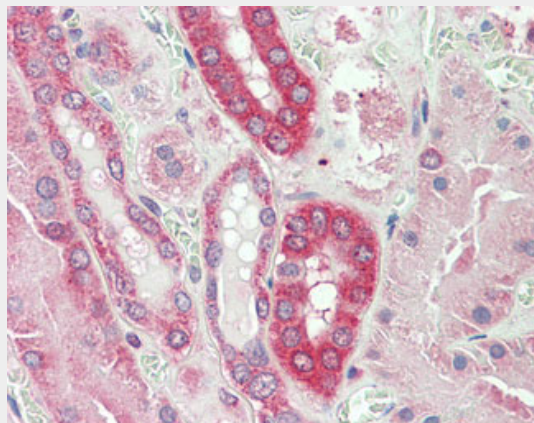
Provided below are standard protocols that you may find useful for product applications.

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

CAPN1 / Calpain 1 Antibody (Internal) - Images



CAPN1 antibody (0.3 ug/ml) staining of Human Spleen lysate (35 ug protein in RIPA buffer).



Anti-CAPN1 / Calpain 1 antibody IHC staining of human kidney.

CAPN1 / Calpain 1 Antibody (Internal) - Background

Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.

CAPN1 / Calpain 1 Antibody (Internal) - References

- Aoki K.,et al.FEBS Lett. 205:313-317(1986).
Sorimachi H.,et al.Biol. Chem. Hoppe-Seyler 371:171-176(1990).
Kim J.W.,et al.Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
Melloni E.,et al.Biochem. Biophys. Res. Commun. 229:193-197(1996).
Michetti M.,et al.FEBS Lett. 392:11-15(1996).