

CAPN1 / Calpain 1 Antibody (clone 15C10)
Mouse Monoclonal Antibody
Catalog # ALS13606**Specification**

CAPN1 / Calpain 1 Antibody (clone 15C10) - Product Information

Application	WB, IHC-P, E, IP
Primary Accession	P07384
Reactivity	Human, Mouse, Rat, Bovine
Host	Mouse
Clonality	Monoclonal
Calculated MW	82kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A IP~~N/A

CAPN1 / Calpain 1 Antibody (clone 15C10) - 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

Reconstitution & Storage

Aliquot and store at -20°C. Minimize freezing and thawing.

Precautions

CAPN1 / Calpain 1 Antibody (clone 15C10) is for research use only and not for use in diagnostic or therapeutic procedures.

CAPN1 / Calpain 1 Antibody (clone 15C10) - 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, PubMed:21531719, PubMed:2400579). Proteolytically cleaves CTBP1 at 'Asn-375', 'Gly-387' and 'His-409' (PubMed:23707407). Cleaves and activates caspase-7 (CASP7) (PubMed: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)

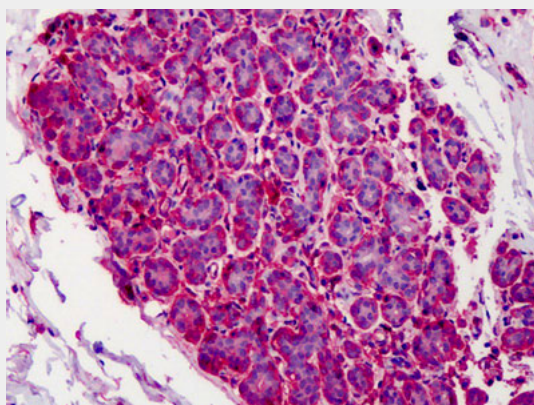
Tissue Location

Ubiquitous.

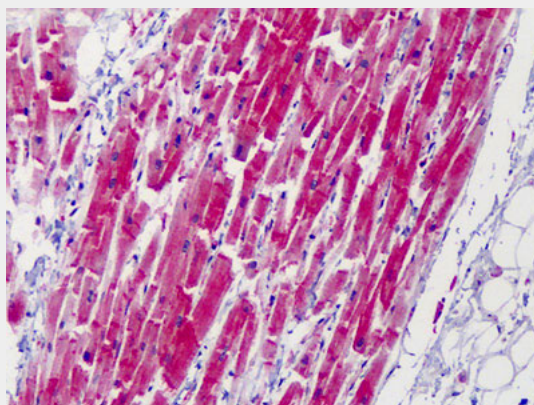
CAPN1 / Calpain 1 Antibody (clone 15C10) - Protocols

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 (clone 15C10) - Images

Anti-CAPN1 / Calpain 1 antibody IHC of human breast.



Anti-CAPN1 / Calpain 1 antibody IHC of human heart.

CAPN1 / Calpain 1 Antibody (clone 15C10) - Background

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

CAPN1 / Calpain 1 Antibody (clone 15C10) - 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).