

Anti-CAPN1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

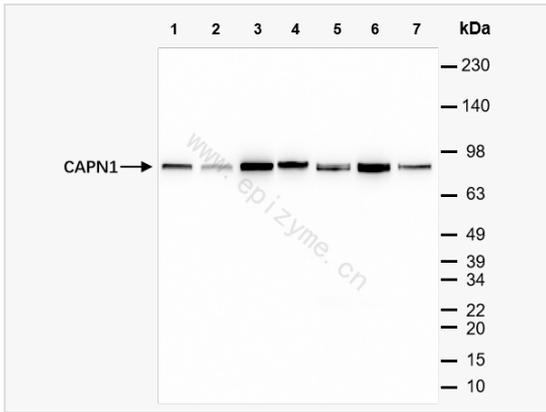
Catalog # M014247

Product Information

Application	IF (Cell)/ICC, IHC-P/IF (Tissue-P), WB, ELISA
Reactivity	Mouse (Cell), Rat, Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	52R99E33
Isotype	IgG
Label	Unconjugated
Immunogen	This CAPN1 antibody is generated from a mouse immunized with a SHC (Shrimp Hemocyanin) conjugated synthetic peptide between 1-420 amino acids from the human region of human CAPN1.
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-CAPN1 Mouse mAb [52R99E33] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Ca2 activated neutral protease, Calcium activated neutral proteinase, Calcium activated neutral proteinase small subunit, Calcium dependent protease small subunit 1, Calcium dependent protease small subunit, Calcium-activated neutral proteinase 1, Calpain 1, Calpain 1 large subunit, Calpain 1, (mu/1) large subunit, Calpain mu type, Calpain mu-type, Calpain regulatory subunit, Calpain small subunit 1, Calpain, large polypeptide L1, Calpain-1 catalytic subunit, Calpain-1 large subunit, CAN1_HUMAN, CANP 1, CANP, CANP small subunit, CANP1, CANPL 1, CANPL1, CAPN 1, CAPN1, Cell proliferation inducing protein 30, Cell proliferation-inducing gene 30 protein, Micromolar Calpain, Micromolar-calpain, Mu Calpain, muCANP, muCL.
Calculated MW	Calculated MW: 82 kDa; Observed MW: 82 kDa
Uniprot ID	P07384
Gene ID	823
Background	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2010].
Cellular Location	Cytoplasm, Cell membrane. Translocates to the plasma membrane upon Ca(2+) binding.
Tissue Location	Ubiquitous.



Western Blot - Anti-CAPN1 Mouse mAb [52R99E33]

All lanes: M014247 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 5: Rat kidney whole tissue lysates

Lane 6: Rat muscle whole tissue lysates

Lane 7: Rat spleen whole tissue lysates

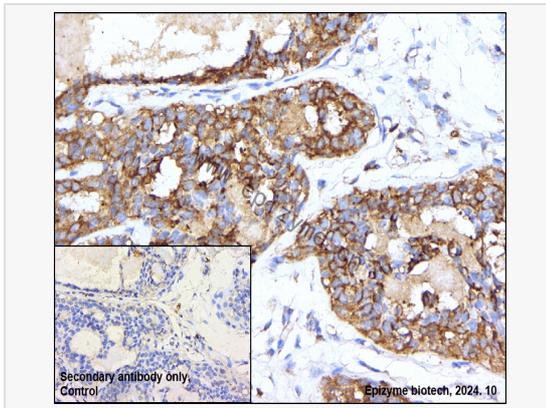
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 82 kDa

Observed band size: 82 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-CAPN1 Mouse mAb [52R99E33]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014247 at 1:200 dilution

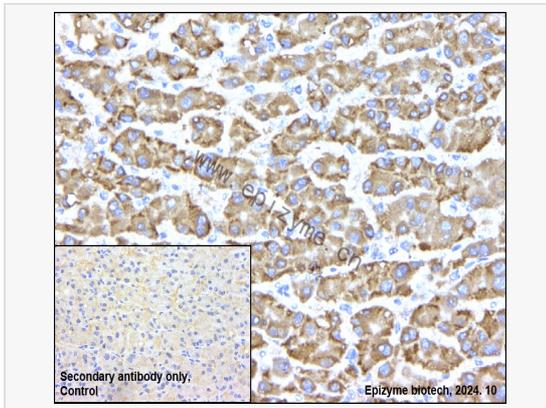
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-CAPN1 Mouse mAb [52R99E33]

Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014247 at 1:200 dilution

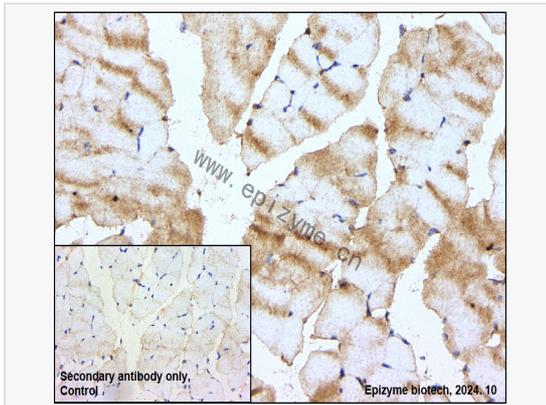
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-CAPN1 Mouse mAb [52R99E33]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse muscle tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014247 at 1:200 dilution

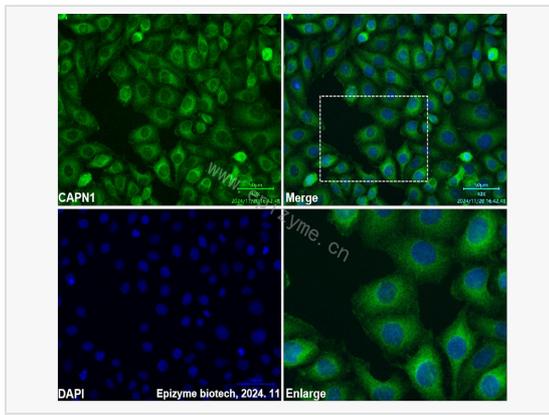
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-CAPN1 Mouse mAb [52R99E33]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: M014247 at 1:100 dilution

Secondary antibodies: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)

Nuclei were stained with DAPI (shown in blue).