Anti-CAPNS1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M900063

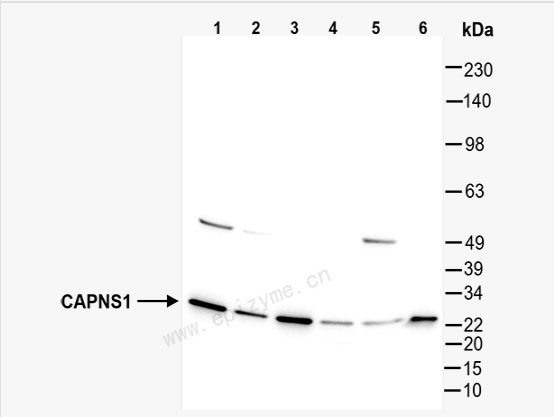
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	72Y50J54
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human CAPNS1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20℃. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20℃ storage.
Precautions	Anti-CAPNS1 Mouse mAb [72Y50J54] is for research use only and not for use in diagnostic or therapeutic procedures.

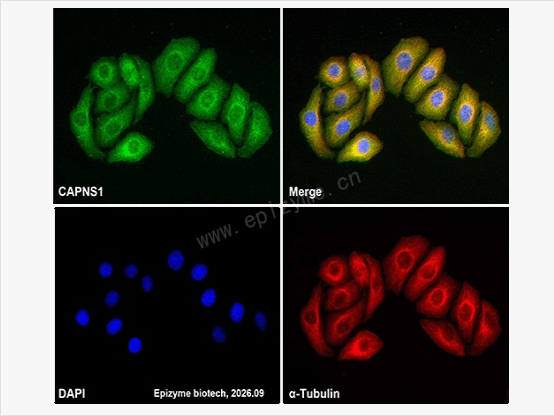
Protein Information

Synonyms	CAPN4; CAPNS; CAPNS1; Calpain small subunit 1; CSS1; Calcium-activated neutral proteinase small subunit; Calcium-dependent protease small subunit; Calcium-dependent protease small subunit 1; Calpain regulatory subunit; CANP small subunit; CDPS.
Calculated MW	Calculated MW: 29 kDa; Observed MW: 29 kDa
Uniprot ID	P04632
Gene ID	826
Background	This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene. This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has been defined on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Validation Images



Western Blot - Anti-CAPNS1 Mouse mAb [72Y50J54]
All lanes: M900063 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: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 6: U87 (Human malignant glioblastoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Predicted band size: 29 kDa
Observed band size: 29 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-CAPNS1 Mouse mAb [72Y50J54]
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: M900063 at 1:100 dilution and α-tubulin Rabbit Monoclonal Antibody (Cat. No. LF213) at 1:100 dilution
Secondary antibodies: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green) and Goat anti-Rabbit (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).