

Mouse anti-Human CAPNS1 Monoclonal Antibody | anti-CAPNS1 antibody

CAPNS1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48164	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

CAPNS1; Monoclonal Antibody; CAPNS1 antibody; Calpain small subunit 1; Calpain; small subunit 1; 30K; CALPAIN4; CANP; CANPS; CAPN4; CDPS; CSS1; anti-CAPNS1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT1D11
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	268
Applicable Applications for anti-CAPNS1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CAPNS1 (84-268aa) purified from E. coli
Clone Note	Anti-human CAPNS1 mAb, clone AT1D11, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CAPNS1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of CAPNS1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CAPNS1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The recombinant human CAPNS1 (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CAPNS1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: CAPNS1 Recombinant protein Lane 2.: HeLa cell lysate Lane 3.: A431 cell lysate Lane 4.: 293T cell lysate Lane 5.: Balb/3T3 cell lysate Lane 6.: U87MG cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-CAPNS1 antibody	CAPNS1, also known as Calpain small subunit 1, are a ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. Calpain families have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. Calpain I and II are heterodimeric with distinct large subunits associated with common small subunits, all of which are encoded by different genes. Two transcript variants encoding the same protein have been identified for this gene.
Product Categories/Family for anti-CAPNS1 antibody	Metabolism
References	Miyake S., et al. (1987) Nucleic Acids Res. 14 (22): 8805-8817.; Ohno S., et al. (1986) Nucleic Acids Res. 14 (13): 5559.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502565
NCBI GeneID	826
NCBI Accession #	NP_001740
NCBI GenBank Nucleotide #	NM_001749.3
UniProt Accession #	P04632; Q8WTX3; Q96EW0; A8K0P1
Molecular Weight	28,316 Da
NCBI Official Full Name	calpain small subunit 1 isoform 1
NCBI Official Synonym Full Names	calpain small subunit 1
NCBI Official Symbol	CAPNS1
NCBI Official Synonym Symbols	CANP; CDPS; CSS1; CANPS; CAPN4; CALPAIN4
NCBI Protein Information	calpain small subunit 1
UniProt Protein Name	Calpain small subunit 1
UniProt Gene Name	CAPNS1
UniProt Synonym Gene Names	CAPN4; CAPNS; CSS1; CANP small subunit; CDPS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.