

Human CAPNS1 antibody

Catalog Number: ATGA0367

PRODUCT INFORMATION

Catalog number

ATGA0367

Clone No.

AT1D11

Product type

Monoclonal Antibody

UnitProt No.

P04632

NCBI Accession No.

NP_001740

Alternative Names

Calpain small subunit 1, Calpain, small subunit 1, 30K, CALPAIN4, CANP, CANPS, CAPN4, CDPS, CSS1

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human CAPNS1 (84-268aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

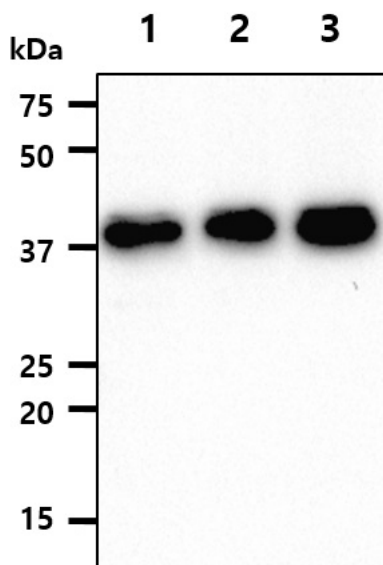
CAPNS1, also known as Calpain small subunit 1, are a ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. Calpain families have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. Calpain I and II are heterodimeric 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.

General References

Miyake S., et al. (1987) *Nucleic Acids Res.* 14(22): 8805-8817.
Ohno S., et al. (1986) *Nucleic Acids Res.* 14(13): 5559.

DATA

Western blot analysis (WB)



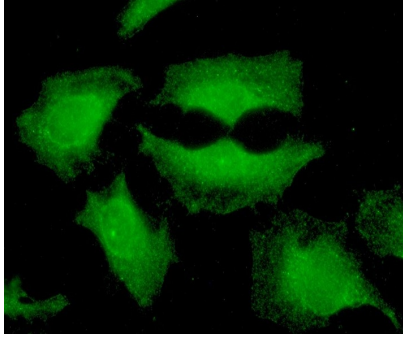
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CAPNS1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate
Lane 2.: A431 cell lysate
Lane 3.: 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of CAPNS1 in HeLa cells. The cell was stained with ATGA0367 (1:100). The secondary antibody (green) was used Alexa Fluor 488.