

CAPNS1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CAPNS1.

Catalog # AT1391a

Specification

CAPNS1 Antibody (monoclonal) (M01) - Product Information

Application	IF, WB, IHC, E
Primary Accession	P04632
Other Accession	BC000592
Reactivity	Human, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	28316

CAPNS1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 826

Other Names

Calpain small subunit 1, CSS1,
Calcium-activated neutral proteinase small
subunit, CANP small subunit,
Calcium-dependent protease small subunit,
CDPS, Calcium-dependent protease small
subunit 1, Calpain regulatory subunit,
CAPNS1, CAPN4, CAPNS

Target/Specificity

CAPNS1 (AAH00592, 172 a.a. ~ 260 a.a)
partial recombinant protein with GST tag.
MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

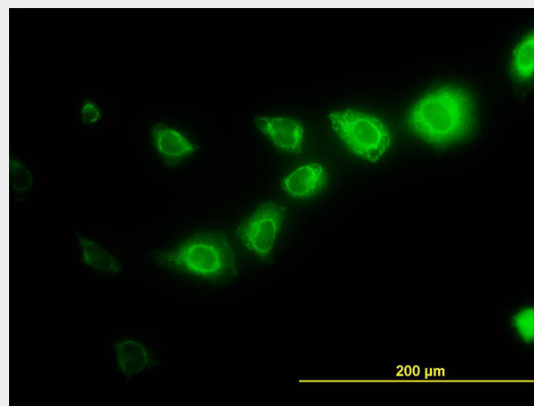
Clear, colorless solution in phosphate
buffered saline, pH 7.2 .

Storage

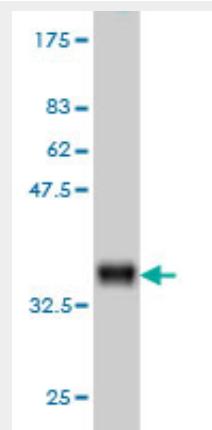
Store at -20°C or lower. Aliquot to avoid
repeated freezing and thawing.

Precautions

CAPNS1 Antibody (monoclonal) (M01) is for
research use only and not for use in
diagnostic or therapeutic procedures.



Immunofluorescence of monoclonal antibody to CAPNS1 on HeLa cell. [antibody concentration 20 ug/ml]

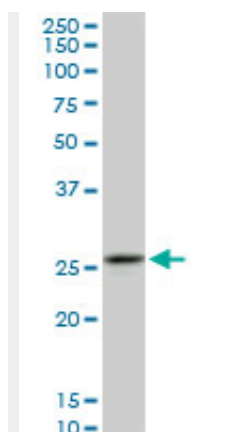


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.42 KDa) .

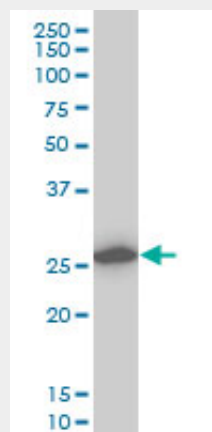
CAPNS1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

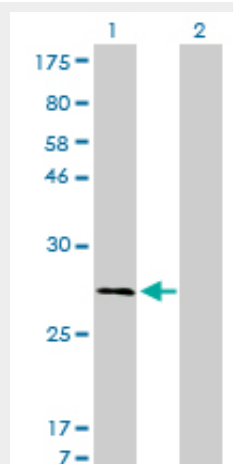
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



CAPNS1 monoclonal antibody (M01), clone 3C4. Western Blot analysis of CAPNS1 expression in PC-12 (Cat # AT1391a)

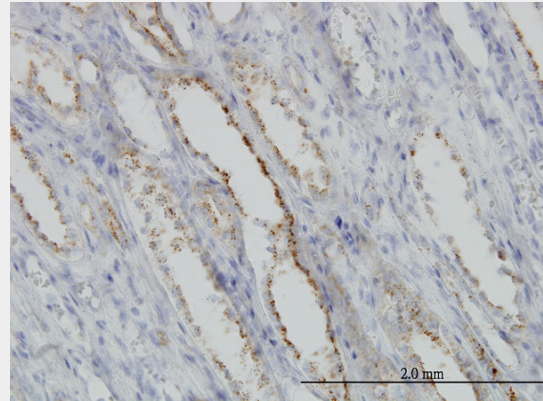


CAPNS1 monoclonal antibody (M01), clone 3C4 Western Blot analysis of CAPNS1 expression in A-431 (Cat # AT1391a)

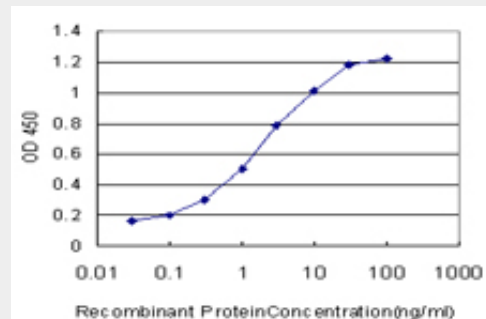


Western Blot analysis of CAPNS1 expression in transfected 293T cell line by CAPNS1 monoclonal antibody (M01), clone 3C4.

Lane 1: CAPNS1 transfected lysate(28.3 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to CAPNS1 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged CAPNS1 is approximately 0.1ng/ml as a capture antibody.

CAPNS1 Antibody (monoclonal) (M01) - Background

Calpains 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. This gene encodes a small subunit common to both calpain I and II and is associated with myotonic dystrophy. Two transcript variants encoding the same protein have been identified for this gene.

CAPNS1 Antibody (monoclonal) (M01) - References

1. Overexpression of a Minimal Domain of

Calpastatin Suppresses IL-6 Production and Th17 Development via Reduced NF- κ B and Increased STAT5 Signals. Iguchi-Hashimoto M, Usui T, Yoshifuji H, Shimizu M, Kobayashi S, Ito Y, Murakami K, Shiomi A, Yukawa N, Kawabata D, Nojima T, Ohmura K, Fujii T, Mimori T. PLoS One. 2011;6(10):e27020. Epub 2011 Oct 27. 2. The calpain inhibitor calpeptin prevents bleomycin-induced pulmonary fibrosis in mice. Tabata C, Tabata R, Nakano T. Clin Exp Immunol. 2010 Sep 15. doi: 10.1111/j.1365-2249.2010.04257.x. [Epub ahead of print] 3. Vitamin E and C supplementation does not ameliorate muscle dysfunction following anterior cruciate ligament surgery. Barker T, Leonard SW, Hansen J, Trawick RH, Ingram R, Burdett G, Lebold KM, Walker JA, Traber MG. Free Radic Biol Med. 2009 Sep 11. [Epub ahead of print]