

# Product Datasheet

## Calpain S1 Antibody (3C4)

### H00000826-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Publications: 5**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/H00000826-M01](http://www.novusbio.com/H00000826-M01)

Updated 6/27/2023 v.20.1

**Earn rewards for product reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/H00000826-M01](http://www.novusbio.com/reviews/destination/H00000826-M01)

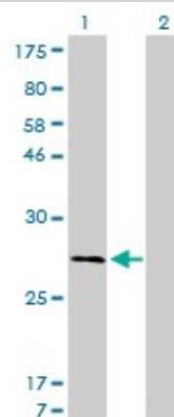


**H00000826-M01****Calpain S1 Antibody (3C4)**

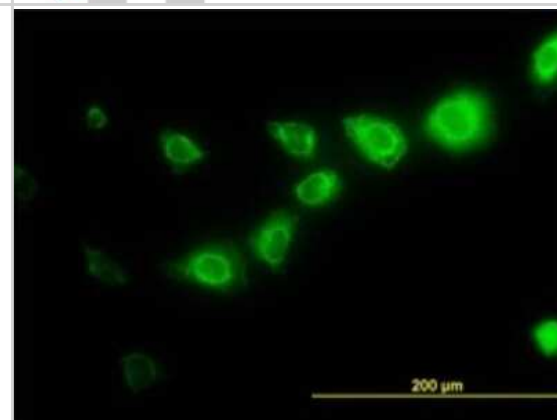
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	3C4
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Quality control test: Antibody Reactive Against Recombinant Protein.
<b>Host</b>	Mouse
<b>Gene ID</b>	826
<b>Gene Symbol</b>	CAPNS1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Calpain S1 (AAH00592, 172 a.a. ~ 260 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. KRWQAIYKQFDTDRSGTICSSSELPGAFEAAGFHLNEHLYNMIIRRYSDSESGNM DFDNFISCLVRLDAMFRAFKSLDKDGTGQIQVNIQE
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Proximity Ligation Assay, Sandwich ELISA, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Proximity Ligation Assay, Sandwich ELISA 1:100-1:2000, Knockdown Validated
<b>Application Notes</b>	Antibody reactivity against recominant protein and cell lysate for WB. It has been used for IF, IHC-P, RNAi Validation and ELISA.

## Images

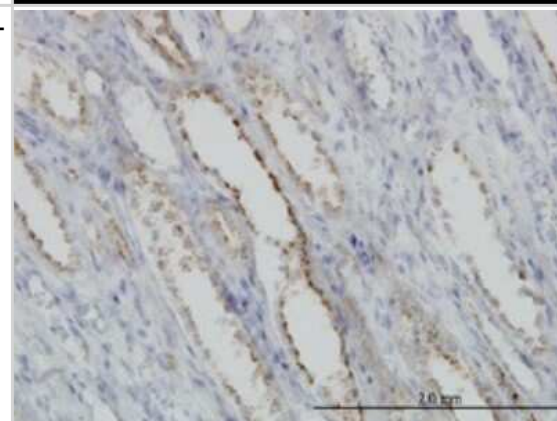
Western Blot: Calpain S1 Antibody (3C4) [H00000826-M01] - Analysis of Calpain S1 expression in transfected 293T cell line by Calpain S1 monoclonal antibody (M01), clone 3C4. Lane 1: Calpain S1 transfected lysate (28.3 KDa). Lane 2: Non-transfected lysate.



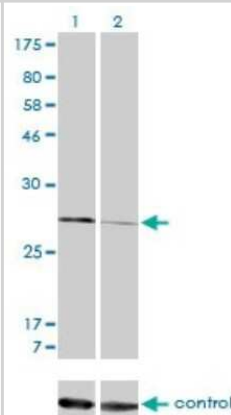
Immunocytochemistry/Immunofluorescence: Calpain S1 Antibody (3C4) [H00000826-M01] - Analysis of monoclonal antibody to Calpain S1 on HeLa cell. Antibody concentration 20 ug/ml.



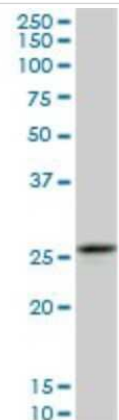
Immunohistochemistry-Paraffin: Calpain S1 Antibody (3C4) [H00000826-M01] - Analysis of monoclonal antibody to Calpain S1 on formalin-fixed paraffin-embedded human kidney. Antibody concentration 3 ug/ml.



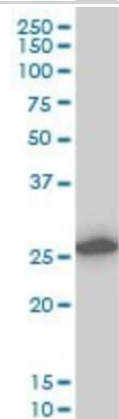
Western Blot: Calpain S1 Antibody (3C4) [H00000826-M01] - Analysis of Calpain S1 over-expressed 293 cell line, cotransfected with Calpain S1 Validated Chimera RNAi ( Cat # H00000826-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with Calpain S1 monoclonal antibody (M01), clone 3C4 (Cat # H00000826-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



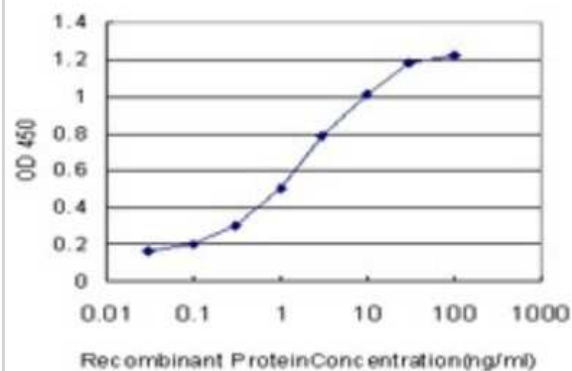
Western Blot: Calpain S1 Antibody (3C4) [H00000826-M01] - Calpain S1 monoclonal antibody (M01), clone 3C4. Analysis of Calpain S1 expression in PC-12.



Western Blot: Calpain S1 Antibody (3C4) [H00000826-M01] - Calpain S1 monoclonal antibody (M01), clone 3C4. Analysis of Calpain S1 expression in A-431.



Sandwich ELISA: Calpain S1 Antibody (3C4) [H00000826-M01] - Detection limit for recombinant GST tagged Calpain S1 is approximately 0.1 ng/ml as a capture antibody.



## Publications

Gao Y, Hall C, MacLeod J, Greer PA et al. Genetic Models of Calpain Deficiency and Ectopic Expression. *Methods Mol Biol.* 2019-05-01 [PMID: 30617810]

Knuppel L, Heinzelmann K, Lindner M et al. FK506-binding protein 10 (FKBP10) regulates lung fibroblast migration via collagen VI synthesis. *Respir Res* 2018-04-19 [PMID: 29673351]

Iguchi-Hashimoto M, Usui T, Yoshifuji H et al. Overexpression of a Minimal Domain of Calpastatin Suppresses IL-6 Production and Th17 Development via Reduced NF- $\kappa$ B and Increased STAT5 Signals. *PLoS One.* 2011-10-27 [PMID: 22046434]

Tabata C, Tabata R, Nakano T. The calpain inhibitor calpeptin prevents bleomycin-induced pulmonary fibrosis in mice. *Clin Exp Immunol* 162(3):560-7. doi: 10.1111/j.1365-2249.2010.04257.x. 2010-12-01 [PMID: 20846163]

Barker T, Leonard SW, Hansen J et al. Vitamin E and C supplementation does not ameliorate muscle dysfunction after anterior cruciate ligament surgery. *Free Radic Biol Med.* 2009-09-11 [PMID: 19751822]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA

Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
novus@novusbio.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada

Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: technical@novusbio.com  
Orders: orders@novusbio.com  
General: novus@novusbio.com

### **Products Related to H0000826-M01**

---

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-51694-0.1mg	Recombinant Human Calpain S1 His Protein

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/H0000826-M01](http://www.novusbio.com/reviews/submit/H0000826-M01)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

