

Product Datasheet

Calpain S1 Antibody (3C4) - Azide and BSA Free H00000826-M01

Unit Size: 0.1 mg

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

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H00000826-M01

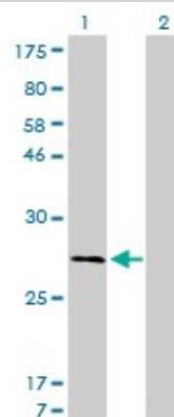
Calpain S1 Antibody (3C4) - Azide and BSA Free

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

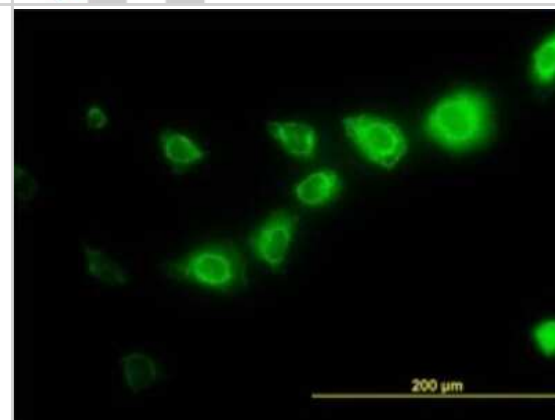


Images

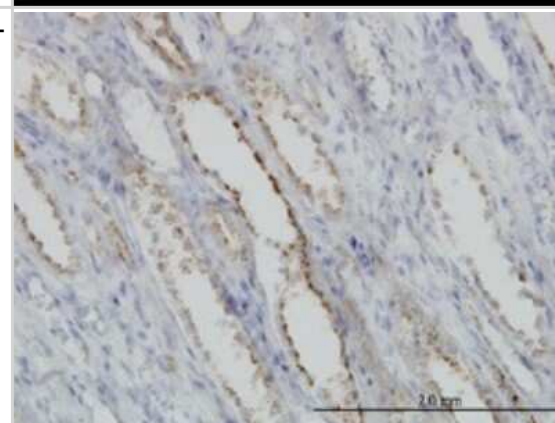
Western Blot: Calpain S1 Antibody (3C4) [H00000826-M01] - Analysis of Calpain S1 expression in transfected 293T cell line by Calpain S1 monoclonal antibody (M01), clone 3C4. Lane 1: Calpain S1 transfected lysate (28.3 KDa). Lane 2: Non-transfected lysate.



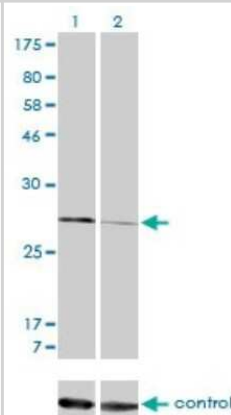
Immunocytochemistry/Immunofluorescence: Calpain S1 Antibody (3C4) [H00000826-M01] - Analysis of monoclonal antibody to Calpain S1 on HeLa cell. Antibody concentration 20 ug/ml.



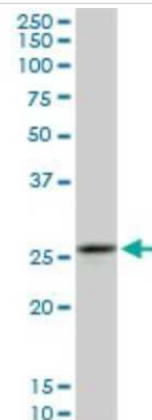
Immunohistochemistry-Paraffin: Calpain S1 Antibody (3C4) [H00000826-M01] - Analysis of monoclonal antibody to Calpain S1 on formalin-fixed paraffin-embedded human kidney. Antibody concentration 3 ug/ml.



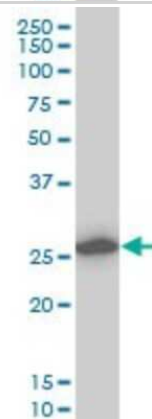
Western Blot: Calpain S1 Antibody (3C4) [H00000826-M01] - Analysis of Calpain S1 over-expressed 293 cell line, cotransfected with Calpain S1 Validated Chimera RNAi (Cat # H00000826-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with Calpain S1 monoclonal antibody (M01), clone 3C4 (Cat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



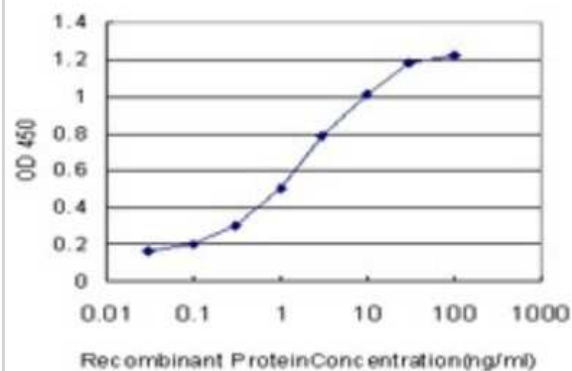
Western Blot: Calpain S1 Antibody (3C4) [H00000826-M01] - Calpain S1 monoclonal antibody (M01), clone 3C4. Analysis of Calpain S1 expression in PC-12.



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

Krishnamoorthy V, Foglizzo M, Dilley RL, Wu A et al. The SPATA5-SPATA5L1 ATPase complex directs replisome proteostasis to ensure genome integrity Cell 2024-03-30 [PMID: 38554706]

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- κ 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]



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Products Related to H0000826-M01

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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.

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