

Calpain S1/S2 Monoclonal Antibody (28F3)

Product Details	
Size	100 µg
Species Reactivity	Bovine, Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	28F3
Conjugate	Unconjugated
Immunogen	Full length protein (Human). Antibody specifically recognizes small subunit.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.5, with 50% glycerol
Contains	3mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2069488

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1 µg/mL	-
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	0.5-1 µg/mL	-
Immunoprecipitation (IP)	1-2 µg/mL	-

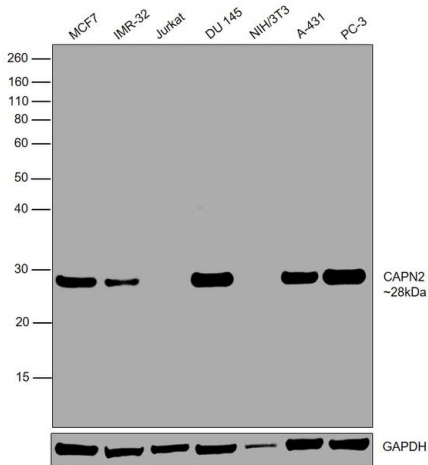
Product Specific Information

This antibody specifically recognizes the 28 to 30 kD small subunit of Calpain 1 and Calpain 2 (mu calpain and m calpain). It recognizes both native and denatured protein in ELISA, Western Blot and Immunoprecipitation.

Product Images For Calpain S1/S2 Monoclonal Antibody (28F3)

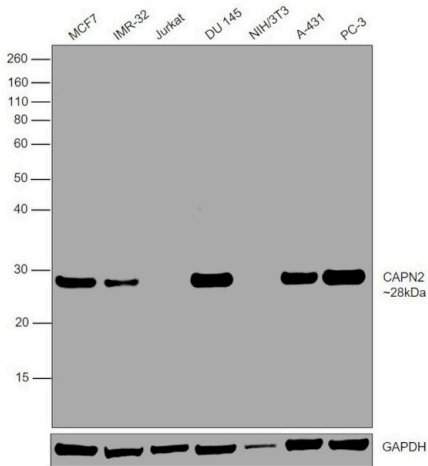
Calpain S1/S2 Antibody (MA1-34966) in WB

Western blot was performed using Anti-Calpain S1/S2 Monoclonal Antibody (28F3) (Product # MA1-34966) and a 28kDa band corresponding to Calpain S1/S2 was observed across the tested cell lines, except Jurkat and NIH/3T3. Whole Cell Extract-TEB (30 µg lysate) of MCF7 (Lane 1), IMR-32 (Lane 2), Jurkat (Lane 3), DU 145 (Lane 4), NIH/3T3 (Lane 5), A-431 (Lane 6), and PC-3 (Lane 7) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0301BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/mL) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Calpain S1/S2 Antibody (MA1-34966)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of Calpain S1/S2 was observed in MCF7, IMR-32, DU 145, A-431 and PC-3, but not in Jurkat using Anti-Calpain S1/S2 Monoclonal Antibody (28F3) (Product # MA1-34966) in Western Blot. {RE}



1 Reference

Flow Cytometry (1)

Oncotarget	Year 2016
Roles of calpain-calpastatin system (CCS) in human T cell activation.	Species Human
<p>"MA1-34966 was used in Flow Cytometry to propose that the constitutive, self-regulatory calpain-calpastatin system activity in resting human T cells is a necessary, controlling element of their readiness for complex and effective response to antigenic challenge."</p> <p>Authors: Mikosik A, Jasiulewicz A, Daca A, Henc I, Frckowiak JE, Ruckemann-Dziurdziska K, Foerster J, Le Page A, Bryl E, Fulop T, Witkowski JM</p>	

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