

For Research Use Only

# Calpain 1 Polyclonal antibody

Catalog Number: 10538-1-AP

Featured Product

23 Publications



## Basic Information

**Catalog Number:**  
10538-1-AP

**Size:**  
150ul, Concentration: 450 µg/ml by Nanodrop and 347 µg/ml by Bradford method using BSA as the standard;

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG0810

**GenBank Accession Number:**  
BC008751

**GeneID (NCBI):**  
823

**Full Name:**  
calpain 1, (mu/l) large subunit

**Calculated MW:**  
704 aa, 82 kDa

**Observed MW:**  
75 kDa

**Purification Method:**  
Antigen affinity purification

**Recommended Dilutions:**  
WB 1:5000-1:50000  
IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB  
IHC 1:100-1:400  
IF 1:10-1:100

## Applications

**Tested Applications:**  
FC, IF, IHC, IP, WB, ELISA

**Cited Applications:**  
CoIP, IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HeLa cells, mouse testis tissue, A2780 cells, A431 cells, HepG2 cells, PC-3 cells, K-562 cells, Jurkat cells

**IP:** HeLa cells,

**IHC:** human urothelial carcinoma tissue, human heart tissue, human testis tissue

**IF:** HeLa cells,

## Background Information

### Notable Publications

Author	Pubmed ID	Journal	Application
Shuchao Wang	30240910	Ann Anat	WB,IF
Folnetti A Alvarez	36114323	Breast Cancer Res Treat	WB
Feng Gao	36341808	Neuropharmacology	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

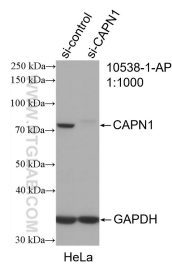
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

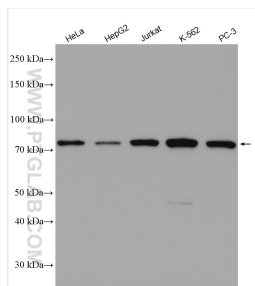
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

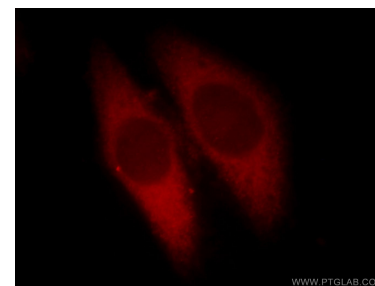
## Selected Validation Data



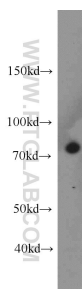
WB result of Calpain 1 antibody (10538-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Calpain 1 transfected HeLa cells.



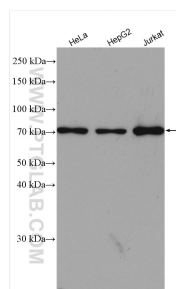
Various lysates were subjected to SDS PAGE followed by western blot with 10538-1-AP (Calpain 1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



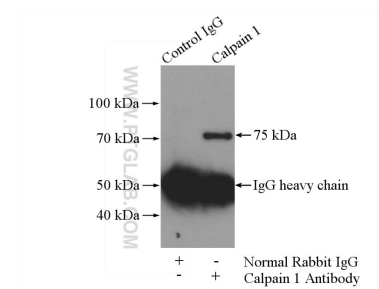
Immunofluorescent analysis of HeLa cells, using CAPN1 antibody 10538-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



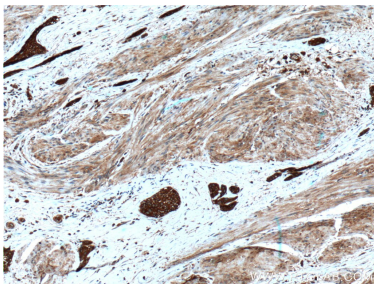
A431 cells were subjected to SDS PAGE followed by western blot with 10538-1-AP (Calpain 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



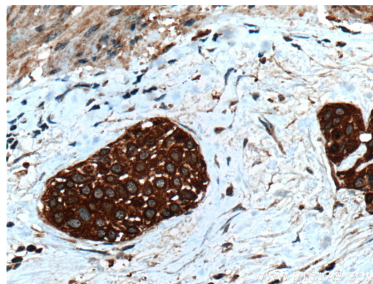
HeLa cells were subjected to SDS PAGE followed by western blot with 10538-1-AP (Calpain 1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



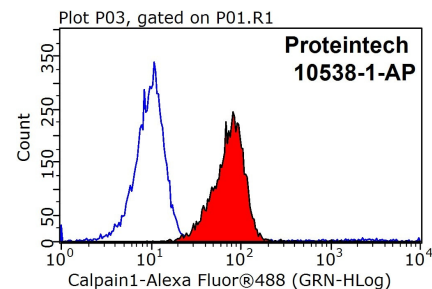
IP Result of anti-Calpain 1 (IP:10538-1-AP, 4ug; Detection:10538-1-AP 1:1000) with HeLa cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 10538-1-AP (Calpain 1 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 10538-1-AP (Calpain 1 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug Calpain 1 antibody (10538-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.