

For Research Use Only

# Calpain 7 Polyclonal antibody

Catalog Number: 26985-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

26985-1-AP

### Size:

700 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG25574

### GenBank Accession Number:

BC056202

### GeneID (NCBI):

23473

### UNIPROT ID:

Q9Y6W3

### Full Name:

calpain 7

### Calculated MW:

93 kDa

### Observed MW:

92 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : mouse brain tissue, HeLa cells, rat brain tissue

IHC : human stomach tissue,

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

## Background Information

Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. Calpain 7 (also known as PalBH) is a mammalian homologue of the Aspergillus, atypical calpain PalB. It is a unique intracellular cysteine protease that has a tandem repeat of microtubule interacting and trafficking (MIT) domains and lacks a penta-EF-hand domain.

## Notable Publications

Author	Pubmed ID	Journal	Application
Dawn M Wenzel	36107470	Elife	WB,IF
Shengkai Zuo	29335338	EMBO Mol Med	WB
Elliott L Paine	37772788	Elife	WB,IF

## 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:

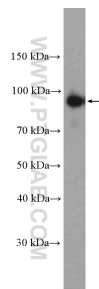
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

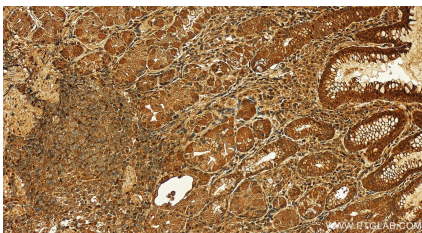
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 26985-1-AP (Calpain 7 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 26985-1-AP (Calpain 7 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).