

For Research Use Only

# Calpain 9 Polyclonal antibody

Catalog Number: 17556-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 17556-1-AP	<b>GenBank Accession Number:</b> BC027993	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 347 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10753	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> calpain 9	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 627 aa, 72 kDa	
<b>Immunogen Catalog Number:</b> AG11718	<b>Observed MW:</b> 60-66 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

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** : human stomach tissue, HL-60 cells, mouse small intestine tissue

**IHC** : human stomach cancer tissue, human kidney tissue, human lung tissue, human ovary tissue, human stomach tissue, human testis tissue

**IF** : HepG2 cells,

## Background Information

Calpain 9 is also named as NCL4 and belongs to the peptidase C2 family. It can be down-regulated in gastric cancer tissue and in gastric cell lines of differentiated and poorly differentiated types. It is predominantly expressed in the gastrointestinal tract and restricted to the gastric surface mucus (pit) cells in the stomach and the function of it is implicated in suppressing tumorigenesis (PMID:20686710).

## Notable Publications

Author	Pubmed ID	Journal	Application
Peike Peng	27404891	Sci Rep	WB, IHC
Fang Li	36532773	Front Pharmacol	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

\*\*\* 20ul sizes contain 0.1% BSA

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)

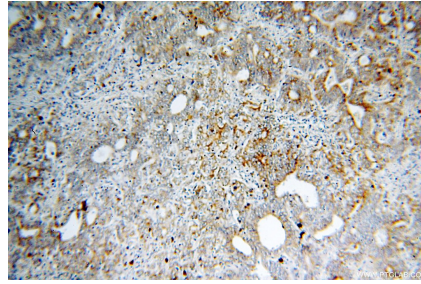
E: proteintech@ptglab.com  
W: ptglab.com

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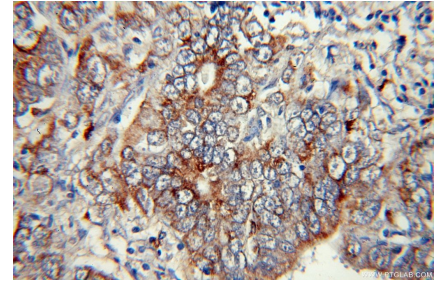
## Selected Validation Data



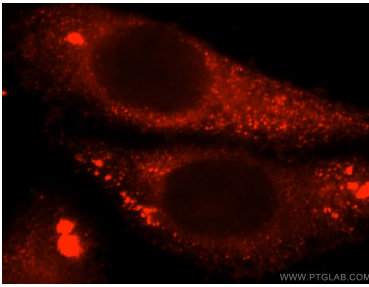
human stomach tissue were subjected to SDS PAGE followed by western blot with 17556-1-AP (Calpain 9 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer using 17556-1-AP (Calpain 9 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human stomach cancer using 17556-1-AP (Calpain 9 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using CAPN9 antibody 17556-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).