

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:

150ul, Concentration: 700 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

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

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 : mouse brain tissue, HeLa cells, rat brain tissue

IHC : human stomach tissue,

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

*** 20ul sizes contain 0.1% BSA

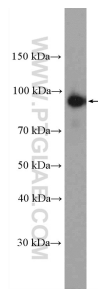
For technical support and original validation data for this product please contact:

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

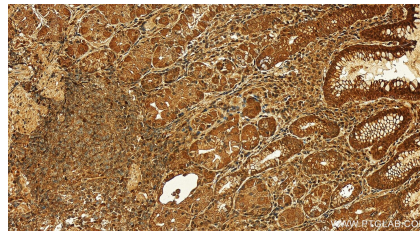
E: proteintech@ptglab.com
W: ptglab.com

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

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).