

For Research Use Only

# CAPN3 Polyclonal antibody

Catalog Number: 28476-1-AP

1 Publications



## Basic Information

### Catalog Number:

28476-1-AP

### Size:

150ul, Concentration: 450 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG29454

### GenBank Accession Number:

BC146672

### GeneID (NCBI):

825

### UNIPROT ID:

P20807

### Full Name:

calpain 3, (p94)

### Observed MW:

90-105 kDa, 55-60 kDa, 30-35 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

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 : rat skeletal muscle tissue,

IHC : mouse skeletal muscle tissue,

## Background Information

Calpain 3 (CAPN3), a major intracellular protease, is a muscle-specific member of the calpain large subunit family that specifically binds to titin. CAPN3 plays a role in the dysferlin protein complex and that disruption of CAPN3 function may affect muscle membrane repair and remodeling. CAPN3 has some isoforms with MW of 94, 84, 93, 36, 18 kDa. CAPN3 autolysis generates a small N-terminal fragment of 34 kDa and a large C-terminal fragment whose size ranges from 55 to 60 kDa during self-processing (PMID: 9794799, 14645524).

## Notable Publications

Author	Pubmed ID	Journal	Application
Takaya Kotani	33991444	Physiol Rep	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

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

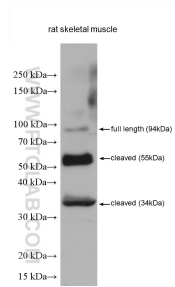
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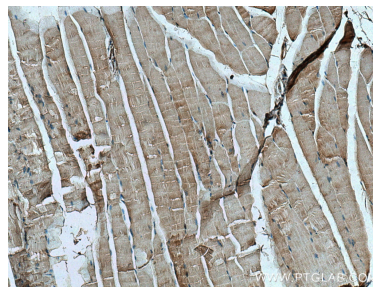
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## Selected Validation Data



rat skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 28476-1-AP (CAPN3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 28476-1-AP (CAPN3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).