

For Research Use Only

# CAPN3 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87158-1-PBS



## Basic Information

<b>Catalog Number:</b> 87158-1-PBS	<b>GenBank Accession Number:</b> BC003521	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 825	<b>CloneNo.:</b> 252328F1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20807	
<b>Isotype:</b> IgG	<b>Full Name:</b> calpain 3, (p94)	
<b>Immunogen Catalog Number:</b> AG0671	<b>Calculated MW:</b> 94 kDa	
	<b>Observed MW:</b> 90-105 kDa, 55-60 kDa, 30-35 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

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

## 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).

## Storage

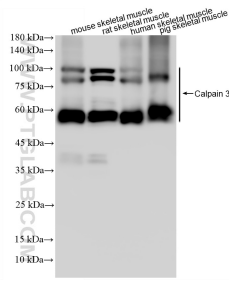
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

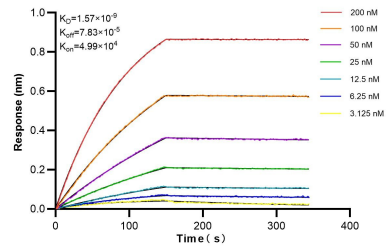
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87158-1-RR (CAPN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87158-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87158-1-RR against Human CAPN3 were performed. The affinity constant is 1.57 nM.