

For Research Use Only

CAPN3 Recombinant monoclonal antibody

Catalog Number: 87158-1-RR



Basic Information

Catalog Number: 87158-1-RR	GenBank Accession Number: BC003521	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 825	CloneNo.: 252328F1
Isotype: IgG	UNIPROT ID: P20807	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: AG0671	Full Name: calpain 3, (p94)	
	Calculated MW: 94 kDa	
	Observed MW: 90-105 kDa, 55-60 kDa, 30-35 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse skeletal muscle tissue, rat skeletal muscle tissue, human skeletal muscle tissue, pig skeletal muscle tissue
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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

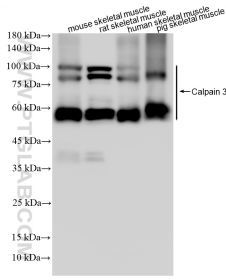
T: 4006900926

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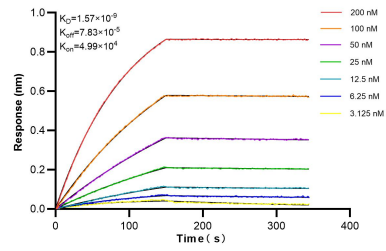
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Selected Validation Data



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.



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