

For Research Use Only

Calpain 3 Polyclonal antibody

Catalog Number: 10492-1-AP **1 Publications**



Basic Information

Catalog Number: 10492-1-AP	GenBank Accession Number: BC004883	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 825	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	Full Name: calpain 3, (p94)	
Isotype: IgG	Calculated MW: 18 kDa	
Immunogen Catalog Number: AG0760	Observed MW: 90-105 kDa, 55-60 kDa, 30-35 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse skeletal muscle tissue, IHC : mouse skeletal muscle tissue, human breast cancer tissue
Cited Applications: WB	
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

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
Radhika Agarwal	36321451	Circulation	WB

Storage

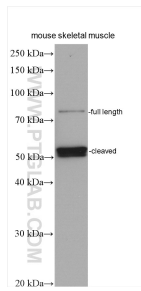
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

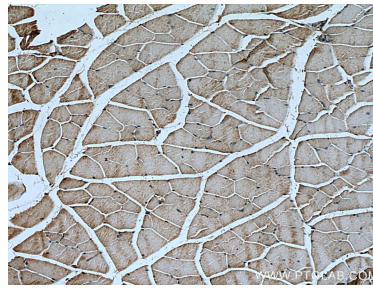
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 10492-1-AP (Calpain 3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 10492-1-AP (Calpain 3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 10492-1-AP (Calpain 3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).