

For Research Use Only

CAPN3 Monoclonal antibody

Catalog Number: 67366-1-Ig **1 Publications**



Basic Information

Catalog Number: 67366-1-Ig	GenBank Accession Number: BC004883	Purification Method: Protein A purification
Size: 150ul , Concentration: 2000 ug/ml by Nanodrop;	GeneID (NCBI): 825	CloneNo.: 1G12A5
Source: Mouse	UNIPROT ID: P20807	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF/ICC 1:1000-1:4000
Isotype: IgG1	Full Name: calpain 3, (p94)	
Immunogen Catalog Number: AG13179	Calculated MW: 18 kDa	
	Observed MW: 90-105 kDa, 55-60 kDa, 30-35 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IP	WB : human skeletal muscle tissue, pig skeletal muscle tissue, rat skeletal muscle tissue, mouse skeletal muscle tissue
Species Specificity: human, mouse, rat, pig	IHC : mouse skeletal muscle tissue,
Cited Species: human	IF/ICC : U2OS cells,
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
Yichen Hou	38104240	Mol Ther	WB,IP

Storage

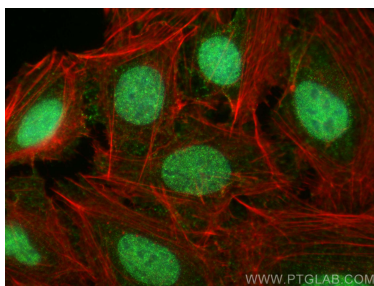
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

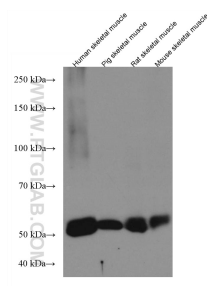
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



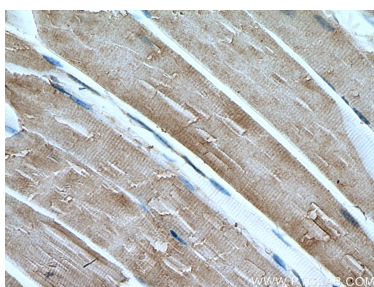
Immunofluorescent analysis of (4% PFA) fixed U2OS cells using CAPN3 antibody (67366-1-Ig, Clone: 1G12A5) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).



Various lysates were subjected to SDS PAGE followed by western blot with 67366-1-Ig (CAPN3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67366-1-Ig (CAPN3 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 67366-1-Ig (CAPN3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).