

For Research Use Only

# SYNM Polyclonal antibody

Catalog Number: 20735-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 20735-1-AP	<b>GenBank Accession Number:</b> NM_015286	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop and 320 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 23336	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> synemin, intermediate filament protein	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 173 kDa	
	<b>Observed MW:</b> 170-180 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : Y79 cells, human skeletal muscle tissue
<b>Cited Applications:</b> IF, IHC	<b>IHC :</b> human skeletal muscle tissue, human bladder tissue, human heart tissue
<b>Species Specificity:</b> human	<b>IF :</b> HeLa cells,
<b>Cited Species:</b> human	

**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

SYNM, also named as DMN, KIAA0353 and SYN, belongs to the intermediate filament family. SYNM is a Type-VI intermediate filament (IF) which plays an important cytoskeletal role within the muscle cell cytoskeleton. It forms heteropolymeric IFs with desmin and/or vimentin, and via its interaction with cytoskeletal proteins alpha-dystrobrevin, dystrophin, talin-1, utrophin and vinculin, is able to link these heteropolymeric IFs to adherens-type junctions, such as to the costameres, neuromuscular junctions, and myotendinous junctions within striated muscle cells. The antibody can't recognize isoform 2 or 3 of SYNM.

## Notable Publications

Author	Pubmed ID	Journal	Application
Siyu Chen	35361267	J Ovarian Res	IHC
Madeline G Andrews	33469577	bioRxiv	IF

## Storage

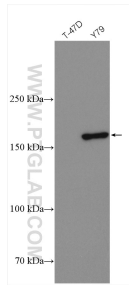
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 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.**

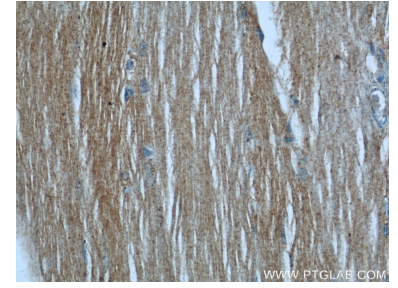
## Selected Validation Data



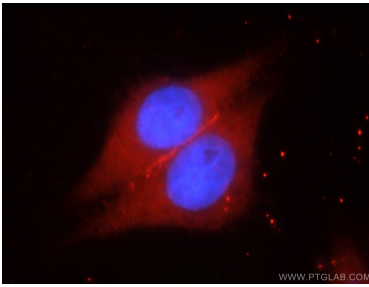
Y79 cells were subjected to SDS PAGE followed by western blot with 20735-1-AP (SYNM antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. SYNM gene methylation in T-47D cells causes gene silencing.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 20735-1-AP (SYNM antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 20735-1-AP (SYNM antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 20735-1-AP (SYNM antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.